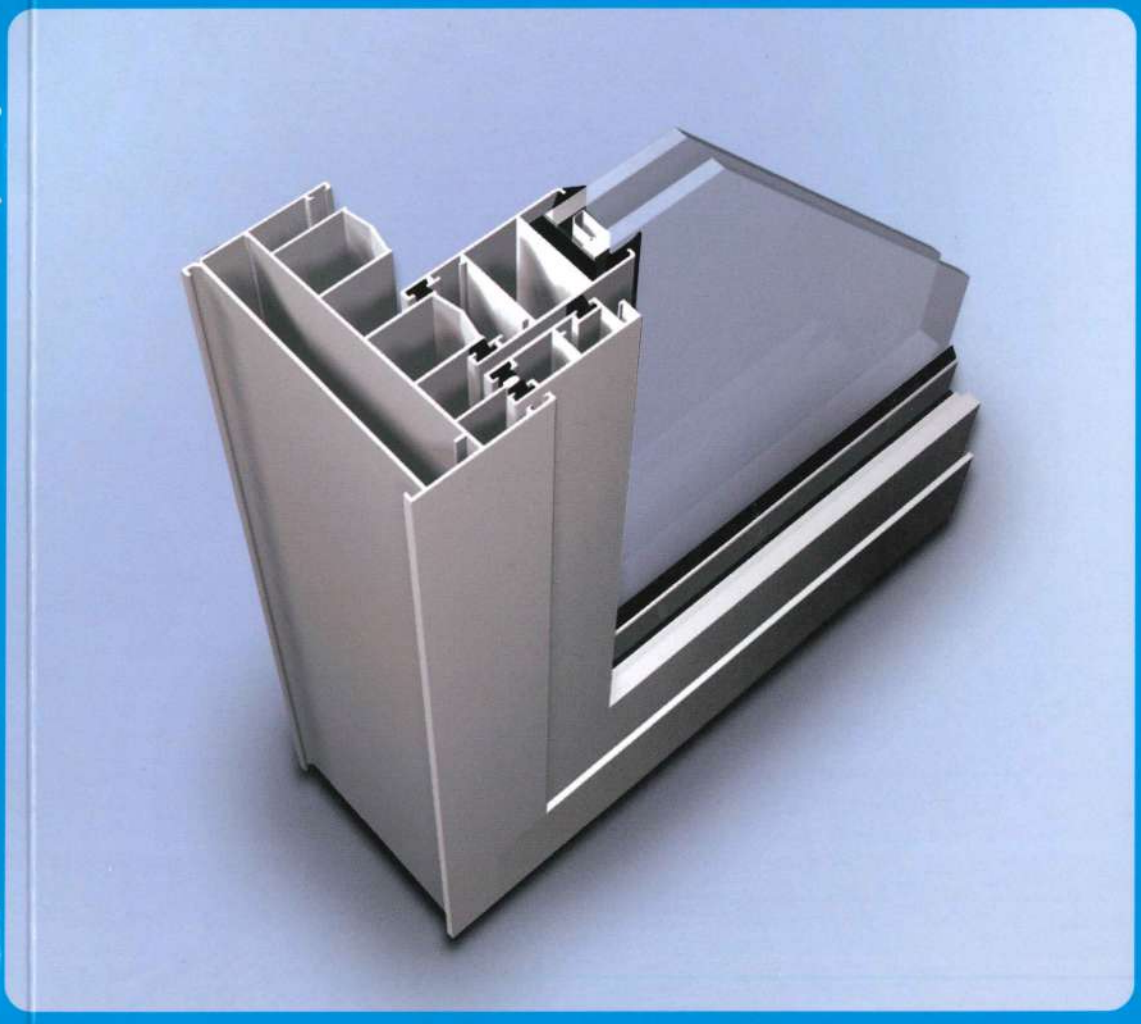
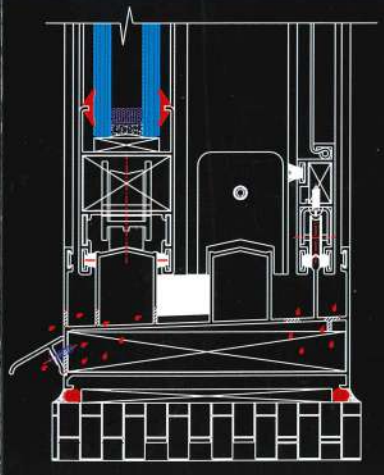
AL-WIN 105®

Sliding Series





GLAZE TECH

System Solution Providers

إليت لسحب الألـمنيوم ذ.م.م

Elite Extrusion LLC

Innovative System Solution
For Aluminum Extrusion

INTRODUCTION

Glazing Technology International System (GLAZETECH) are one of the leading aluminium architectural solution providers through innovative system and special component designing.

After the successful launch of Elegant 65® Glazing System & Thermos 110® Thermally Broken System, GLAZETECH is now proud to introduce a high performance, Sliding System AL-WIN 105®.

AL-WIN 105® has superior features and characteristics that will answer to the region's harsh climatic, wind load and pressure challenges.

In this 105mm. Series, apart from the traditional double sliding tracks for doors and windows, there are options for arches and architraves, Single and Double Glazing.

The system's high performance is guaranteed as the profiles are extruded at Elite Extrusions, LLC - Ras Al Khaimah, which is equipped with latest all European manufacturing facilities, and is controlled by highly qualified and experienced personnel.

The system is designed to be compatible with standard Eurogroove accessories and is carefully tailored to limit the use to optimum numbers of accessories per unit.

Right from the design stage, the ease of fabrication requirements are ensured so that the system can be fabricated within shortest possible lead time. The technical design of the product meets all the statutory and regulatory requirements followed in aluminium and glass fabrications.

Last but not the least, GLAZETECH would be ever happy to render technical assistance to all its clients and customers upon requests.

At GLAZETECH, we firmly believe in building relationship and partnership by constant dialogues and interactions with Architects, Consultants, Contractors, Fabricators and the End Users. We now invite you to derive benefits of ALWIN-105® for your profitable, durable and prestigious projects.

This is an updated version of the catalogue and supersedes the earlier issue. Customers are requested to refer and order base only on this updated version 2013.

AL-WIN 105® SYSTEM

HIGH PERFORMANCE SLIDING SYSTEM

Contents

Certificate of Testing

THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

Certificate Number: CKH15

Date: 2010, August

Project: AL WIN 105 - SLIDING SYSTEM

Supplier: Elite Extrusion LLC
P.O. Box 31291 Ras Al Khaimah, U.A.E.

Type: AL WIN 105 - SLIDING SYSTEM

Tested for:

Air Infiltration Test, ASTM E 283-04	Pass
Static Water Penetration Test, ASTM E 331-00	Pass
Structural Performance Test, ASTM E 330-02	Pass
Post Structural- Static Water Penetration Test, ASTM E 331-00	Pass
Structural Proof Load Test, ASTM E 330-02	Pass
Air PermeabilityTest, BSEN 1026	Pass
Watertightness, BSEN 1027	Pass
Wind Resistance Test, BSEN 12211	Pass

Notes:

This certificate is relevant to the tested sample only and should be read in conjunction with the Final Report.

Thomas Bell-Wright International Consultants

Thomas Bell-Wright Int'l Consultants (Dubai Br.)
P.O.Box:26385
DUBAI-U. A. E.

Sandy Dweik
Vice President & Chief Consultant

Clarence P. Facun
Senior Testing Engineer

Date: 29 August 2010

P.O. BOX 26385 DUBAI, U.A.E. TEL: (+9714) 333-2692 FAX: (+9714) 333-2693 WEB: www.bell-wright.com

A. Air Infiltration Test

Project name:	AL WIN 105											
Air permeability test BS EN 1026											August 17, 2010	
File No.	**JJ19**	**Thomas Bell-Wright International Consultants, Dubai**									8:40:46 AM	
Ambient condition												
Air Temperature	27.2	ºC	Bar. Press.	1004	mb		RH	45.2	%	DATE		

Test criteria

Specimen height	1.40	m			**300**	Chamber
Specimen width	1.30	m	Inlet nozzle size	56 mm	18	Nozzle
Specimen area	1.8	m²	Nozzle Connection	A- PT L1	42.6	Flow
Test pressure	300	Pa	Chamber Connection	B- PT L2		
Length of opening joint	0.0	m				
Permitted leakage fixed area	5.4	m³/hr/m²				
Permitted leakage(opening joint)	0.0	m³/hr/m	**Clark Facun**			
Total permitted leakage	9.7	m³/hr	Testing Engineer			

Air Infiltration Test

Chamber Leakage

Test Pressure	50	100	150	200	250	300					
Chamber Pressure	50	100	151	202	256	300					Pa
Nozzle pressure	1	2	3	4	8	10					Pa
Flow	10.6	15	18.4	21.2	30.1	33.6					m³/hr

Chamber

Chamber and Specimen Leakage

Test Pressure	50	100	150	200	250	300					
Chamber Pressure	50	99	149	201	253	301					Pa
Nozzle pressure	1	3	5	8	12	18					Pa
Flow	10.6	18.4	23.7	26.5	36.8	42.6					m³/hr
	0	**3**	**5**	**5**	**7**	**9**					m³/hr

Specimen

Air Exfiltration Test

Hose and Blower Leakage

Test Pressure	200	300	
Chamber Pressure			Pa
Nozzle pressure			Pa
Flow			m³/hr

Chamber Leakage

Test Press.	200	300	
Chamber Press			Pa
Nozzle press			Pa
Flow			m³/hr

Hose & Blower

Chamber

Time:

B. Watertightness Test

Project Name	**AL WIN 105**								
Water Tightness BS EN 1027								Tuesday, August 17, 2010	
File No.:	**JJ19**		**Thomas Bell-Wright International Consultants, Dubai**					10:48:39 AM	
AMBIENT CONDITION									
Air Temperature	27.1	°C	Barometric Pressure	1004	mb	Relative Humidity	20	%	
						TEST CRITERIA		Update	
			Width	1.3	m	Height	1.4	m	
Chamber Connection	B- PT L2		The spray rack will consist of	3	rows of	7	nozzles		
US gallon / minute	7.0				Test Pressure	450	Pa		

HOUR	MINUTES	SECONDS
0	55	0
TIMER		
0	55	0
CHAMBER PRESSURE		
600		

STOP

Conclusion PASS

Start/reset timer 10:53 AM

Calculated finishing time 11:43 AM

Actual when timer stopped 11:53:35 AM

	0	50	100	150	200	250	300	450	600
TIME	11:08 AM	11:13 AM	11:23 AM	11:28 AM	11:33 AM	11:38 AM	11:43 AM	11:48 AM	11:53 AM
PRESSURE	5	50	101	136	181	257	307	438	591
Minutes	0:15	0:20	0:25	0:30	0:35	0:40	0:45	0:50	0:55

RECORD

Clark Facun
Testing Engineer

C. Resistance to Wind Load Test

Project Name: AL WIN 105

Structural Wind Load - Safety

File No.: IK05

THOMAS BELL-WRIGHT *INTERNATIONAL CONSULTANTS*

Clark Facun
Testing Engineer

August 17, 2010
12:20 PM

Ambient Condition

Ambient Temperature	27.5	ºC
Barometric Pressure	1004	mb
Relative Humidity	20	%

Test Criteria

Design wind load	1800	Pa
Vertical frame length to be tested	1.3	m
Hirizontal Frame length to be tested	0.60	m
Max. allowable deformation - mullion	1.3	mm
Max. allowable deformation - transom	0.6	mm

TEST PRESSURE

LDT MOVEMENT: 0, -4, 1, 3, 0, -4, 0

LDT		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
+	Max Load	0.0	-3.0	-2.0	-2.0	1.0	-1.0	-5.0	-11.0												
-		0.0	-2.0	-3.0	-1.0	1.0	-1.0	-4.0	-10.0												

C

LDT		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
+	Residual	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
-		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												

C

LDT	1	2	3	NET		4	5	6	NET		7			NET	
														0	

LIVE READING
Chamber Pressure
1800 **Pa**

Time Finish 12:57:36 PM

D. Air Infiltration Test

Air Infiltration Test ASTM E283 - 04 — Project Name: **AL WIN 105**
This is the fourth test in sequence, and the initial running of this test — Client: **ELITE EXTRUSION** — File: **JJ19**

Thomas Bell-Wright International Consultants, Dubai

TEST CRITERIA

Specimen height	1.40	m
Specimen width	1.30	m
Specimen area	1.82	m²
Length of opening joint	0.00	m
Permitted leakage, area	5.40	m³/hr/m²
Permitted leakage, opening joint	0.00	m³/hr/m

INSTANTANEOUS VALUES

Ambient Temperature	32	ºC
Barometric Pressure	1012	mb
Relative Humidity	74	
Chamber Pressure	300	Pa
Nozzle Pressure	20.32	Pa
Input Data Check	1	

PRESSURE & FLOW

Test pressure	300	Pa
Total permitted leakage	**9.83**	m³/hr
Required accuracy (5%)	± 0.14	m³/hr

CALCULATED VALUES

Ambient Air Density	1.52	kg/m³
Standard Air Density	1.20	kg/m³
Reynolds Number	27,263	
Check Value	46.40	m³/hr
Air Flow at ambient conditions	47.60	m³/hr
Adjust to exact Test Pressure	47.60	m³/hr
Uncertainty	± 0.14	m³/hr

INPUT CONNECTION

Conical Inlet Nozzle Dia.	55.91	mm
Pressure Tdr. Range	500	Pa
Pressure Tdr. Uncertainty	2.8	Pa
Chamber Connection	LDT 2	
Nozzle Connection	LDT 1	

UNCERTAINTY

Method, from BS848	0.4965	m³/hr
Nozzle pressure	2.2696	m³/hr
Nozzle diameter	0.1492	m³/hr
Barometric pressure	0.1492	m³/hr
Temperature	0.1226	m³/hr
Relative Humidity	0.0223	m³/hr
Total uncertainty	1.3488	m³/hr

MEAN LEAKAGE AT AMBIENT CONDITIONS

Extraneous leakage at ambient conditions	43.19	m³/hr
Uncertainty of Extraneous Leakage	± 1.52	m³/hr
Total leakage at ambient conditions	47.63	m³/hr
Uncertainty of Total Leakage	± 1.83	m³/hr
Specimen leakage at ambient conditions	4.45	m³/hr

AIR INFILTRATION TEST RESULT

Specimen Leakage at Standard Conditions	**4.44**	m³/hr
Standard Uncertainty (68% confidence)	± 2.14	m³/hr
Expanded Uncertainty (95% confidence)	± 3.34	m³/hr

After completion of the testing, the data was saved at 15:22, in C:\Documents and Settings\user\My Documents\SITE TESTING\AL WIN 105\[AL WIN 105.xls]Air Inf

Testing Engineer: ***Clark Facun***

Date: **19-Aug-10**

MEAN LEAKAGE DATA

This sheet will average up to 10 readings of Extraneous Leakage and Total Leakage, and display the mean values below.

	Readings	Temp	Bar	RH	Dia	Chamber	Nozzle	Air Flow	Adjusted	Uncert'y	Time	Date
Extraneous	5	32 ºC	1012 mb	74	55.91 mm	300 Pa	17	43.91 m³/hr	43.91 m³/hr	± 1.52 m³/hr	11:00 AM	19-Aug-10
Total	5	32 ºC	1012 mb	74	55.91 mm	300 Pa	20	47.63 m³/hr	47.63 m³/hr	± 1.83 m³/hr	11:00 AM	19-Aug-10

E. Static Water Penetration Test

Static Water Penetration Test ASTM E331 - 00 **Project Name:** AL WIN 105

This is the fifth test in sequence, and the initial running of this test **Client:** ELITE EXTRUSION **File:** JJ19

Thomas Bell-Wright International Consultants, Dubai

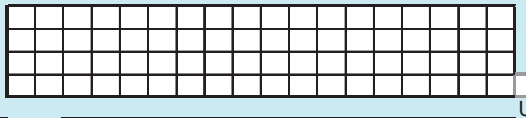
TEST CRITERIA		
Specimen height	1.400	m
Specimen width	1.300	m
Specimen area	1.82	m²
Test pressure	600	Pa
Accuracy ±	9	Pa

INSTANTANEOUS VALUES		
Ambient Temperature	34.0	ºC
Barometric Pressure	1,012	mb
Relative Humidity	72%	
Chamber Pressure	**600**	**Pa**
Uncertainty ±	2.8	Pa

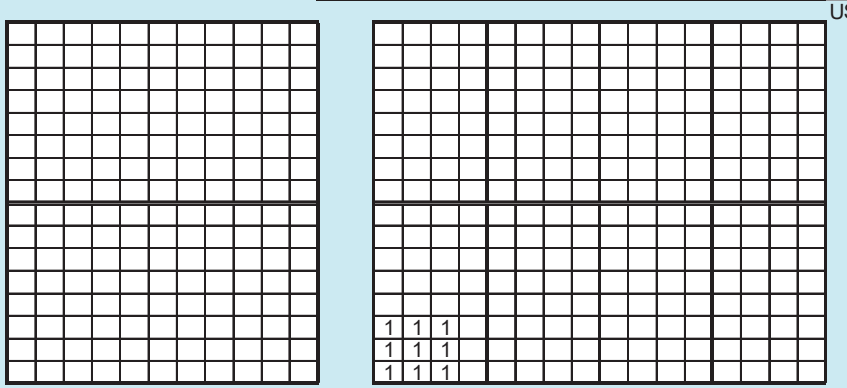
TIMER DATA	
Start Time	11:20:47
Current Time	15:09:36
Elapsed Time	15:02
Time to Go	00:00
Finish Time	
Test Duration	15.0 Min
	15:00

The diagrams below represent the two main types of spray racks plus one free-form (for irregular areas). Each square is 61cm and the nozzle delivers one third of a US gallon per minute. A one has been placed in the squares where nozzles will be activated. Totals for the flow rates for the upper and lower portions of the spray racks are shown below the diagrams.

PRESSURE UNCERTAINTY		
Pressure Tdr. Range	500	Pa
Pressure Tdr. Uncertainty	2.8	Pa



0.00 US gpm



Upper Half: 0.00 US gpm
Lower Half: 0.00 US gpm

Upper Half: 0.00 | 0.00 | 0.00 | 0.00 US gpm
Lower Half: 9.33 | 9.33 | 0.00 | 0.00 US gpm

After completion of the testing, the data was saved at 15:9, in C:\Documents and Settings\user\My Documents\SITE TESTING\MOE\[MOE.xls]St. Water

Observations: Passed. No water leakage found

Clark Facun

Date: 19-Aug-10

F. Structural Performance Test

Structural Load Test ASTM E330 - 02 | **Project Name:** AL WIN 105

This is the sixth test in sequence, and the initial running of this test | **Client:** ELITE EXTRUSION | **File:** JJ19

Thomas Bell-Wright International Consultants, Dubai

TEST CRITERIA		
Mullion Length	1.300	m
Transom Length	0.600	m
Allowable Vertical. Deflec'n	7.43	mm
Allowable Hor. Deflec'n	3.43	mm
Design Pressure	1,200	Pa
Accuracy ±	± 24	Pa

PRESSURE UNCERTAINTY		
Pressure Tdr. Range	± 12,000	Pa
Pressure Tdr. Uncertainty	± 75	Pa

INSTANTANEOUS VALUES		
Ambient Temperature	36.0	ºC
Barometric Pressure	1,012	mb
Relative Humidity	72%	
Chamber Pressure	**1,200**	**Pa**
Uncertainty ±	± 75	Pa
Timer (Zero)	00:00	

Current Values

LDT 1: 0.00
LDT 2: 0.00
LDT 3: 0.00
LDT 4: 0.00
LDT 5: 0.00
LDT 6: 0.00
LDT 7: 0.00
LDT 8: 0.00

Zero Pressure | Zero LDTs | Start Recorder | Stop Recorder

Initial Readings | Capture Data | Clear

VIEW FROM OUTSIDE — Deflections in mm

Mullion			Transom		
LDT	(+)	(-)	LDT	(+)	(-)
1	2.00	-2.00	4	12.00	-14.00
2	1.00	-3.00	5	14.00	-16.00
3	3.00	-2.00	6	12.00	-12.00
Net	**-1.50**	**-1.00**	Net	**2.00**	**-3.00**

Testing Engineer: Clark Facun

Date: August 19, 2010

Finish & Save Data

G. Post Structural Performance - Static Water Penetration Test

Static Water Penetration Test ASTM E331 - (**Project Name:** **AL WIN 105**

This is the seventh test in sequence, and the initial running of this test **Client:** **ELITE EXTRUSION** **File:** **JJ19**

Thomas Bell-Wright International Consultants, Dubai

TEST CRITERIA		
Specimen height	1.400	m
Specimen width	1.300	m
Specimen area	1.82	m²
Test pressure	600	Pa
Accuracy ±	12	Pa

INSTANTANEOUS VALUES		
Ambient Temperature	36.0	ºC
Barometric Pressure	1,012	mb
Relative Humidity	72%	
Chamber Pressure	600	**Pa**
Uncertainty ±	2.8	Pa

TIMER DATA		
Start Time	2:30 PM	
Current Time	11:54 AM	
Elapsed Time	15:05	
Time to Go		
Finish Time		
Test Duration	15.0	Min
	15:00	

Prepare

Recording Data

Start Recording

TIMER PAUSED

Start Timer

Pause Timer

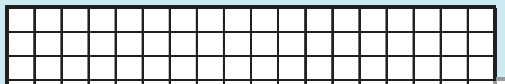
Resume

Restart Timer

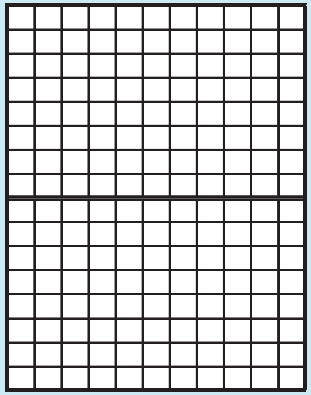
After 11:54 of the testing, the data was saved to C:\Users\clark29\Desktop\[AL WIN 105.xls]St. Water

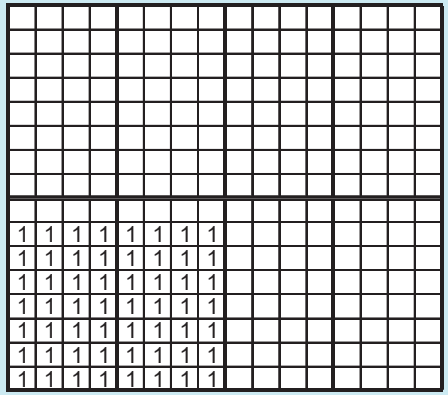
The diagrams below represent the two main types of spray racks plus one free-form (for irregular areas). Each square is 61cm and the nozzle delivers one third of a US gallon per minute. A one has been placed in the squares where nozzles will be activated. Totals for the flow rates for the upper and lower portions of the spray racks are shown below the diagrams.

PRESSURE UNCERTAINTY		
Pressure Tdr. Range	500	Pa
Pressure Tdr. Uncertainty	2.8	Pa



0.00 US gpm





Upper Half: 0.00 US gpm
Lower Half: 0.00 US gpm

Upper Half: 0.00 | 0.00 | 0.00 | 0.00 US gpm
Lower Half: 9.33 | 9.33 | 0.00 | 0.00 US gpm

Observations: No water leakage, result Passed.

Clark Facun

Date: 19-Aug-10

H. Structural Proof Load Test

Structural Load Test ASTM E330 - 02 | **Project Name:** AL WIN 105

This is the sixth test in sequence, and the initial running of this test | **Client:** ELITE EXTRUSION | **File:** JJ19

Thomas Bell-Wright International Consultants, Dubai

TEST CRITERIA		
Mullion Length	1.300	m
Transom Length	0.600	m
Allowable Vertical. Deflec'n	7.43	mm
Allowable Hor. Deflec'n	3.43	mm
Design Pressure	1,200	Pa
Accuracy ±	± 24	Pa

PRESSURE UNCERTAINTY		
Pressure Tdr. Range	± 12,000	Pa
Pressure Tdr. Uncertainty	± 75	Pa

INSTANTANEOUS VALUES		
Ambient Temperature	36.0	ºC
Barometric Pressure	1,012	mb
Relative Humidity	72%	
Chamber Pressure	**1,800**	**Pa**
Uncertainty ±	± 75	Pa
Timer (Zero)	00:00	

Current Values

LDT 1: 0.00
LDT 2: 0.00
LDT 3: 0.00
LDT 4: 0.00
LDT 5: 0.00
LDT 6: 0.00
LDT 7: 0.00
LDT 8: 0.00

Zero Pressure | Zero LDTs | Start Recorder | Stop Recorder

Initial Readings | Capture Data | Clear

VIEW FROM OUTSIDE — Deflections in mm

Mullion			Transom		
LDT	(+)	(-)	LDT	(+)	(-)
1	0.20	0.30	4	0.20	0.24
2	0.30	0.50	5	0.40	0.40
3	0.20	0.30	6	0.20	0.20
Net	**0.10**	**0.20**	Net	**0.20**	**0.18**

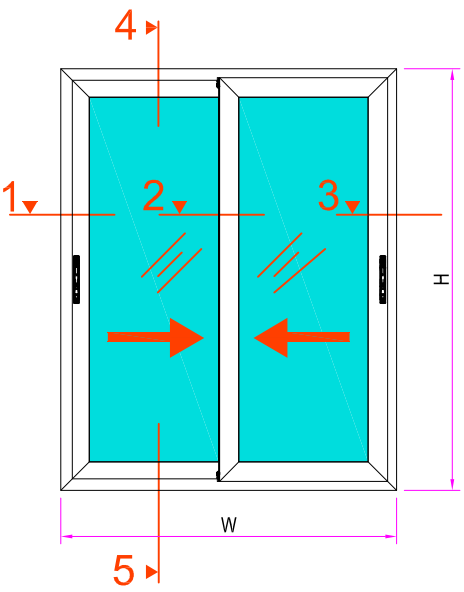
Testing Engineer: *Clark Facun*

Date: August 19, 2010

Finish & Save Data

AL - WIN 105® SLIDING SERIES

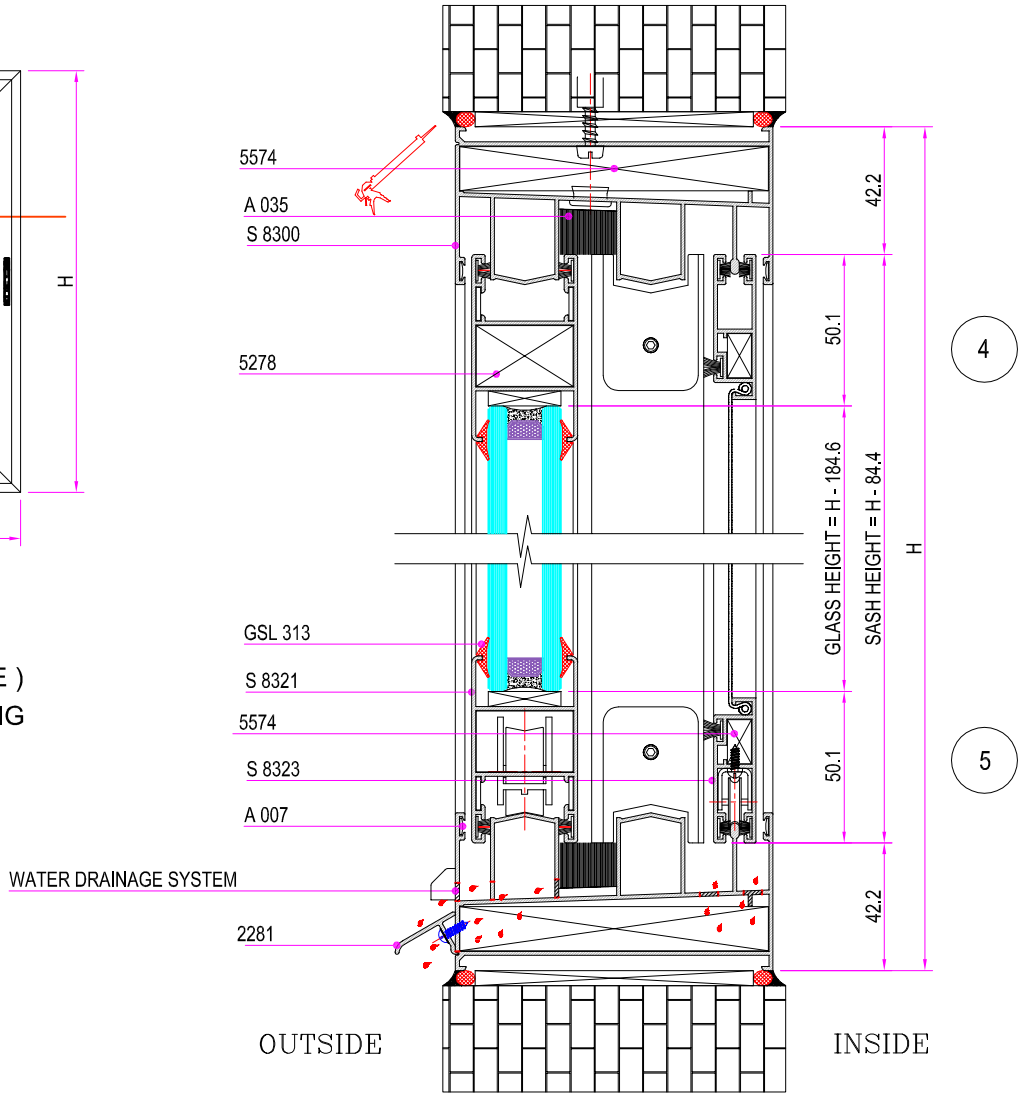
DOUBLE TRACK SLIDING WINDOW

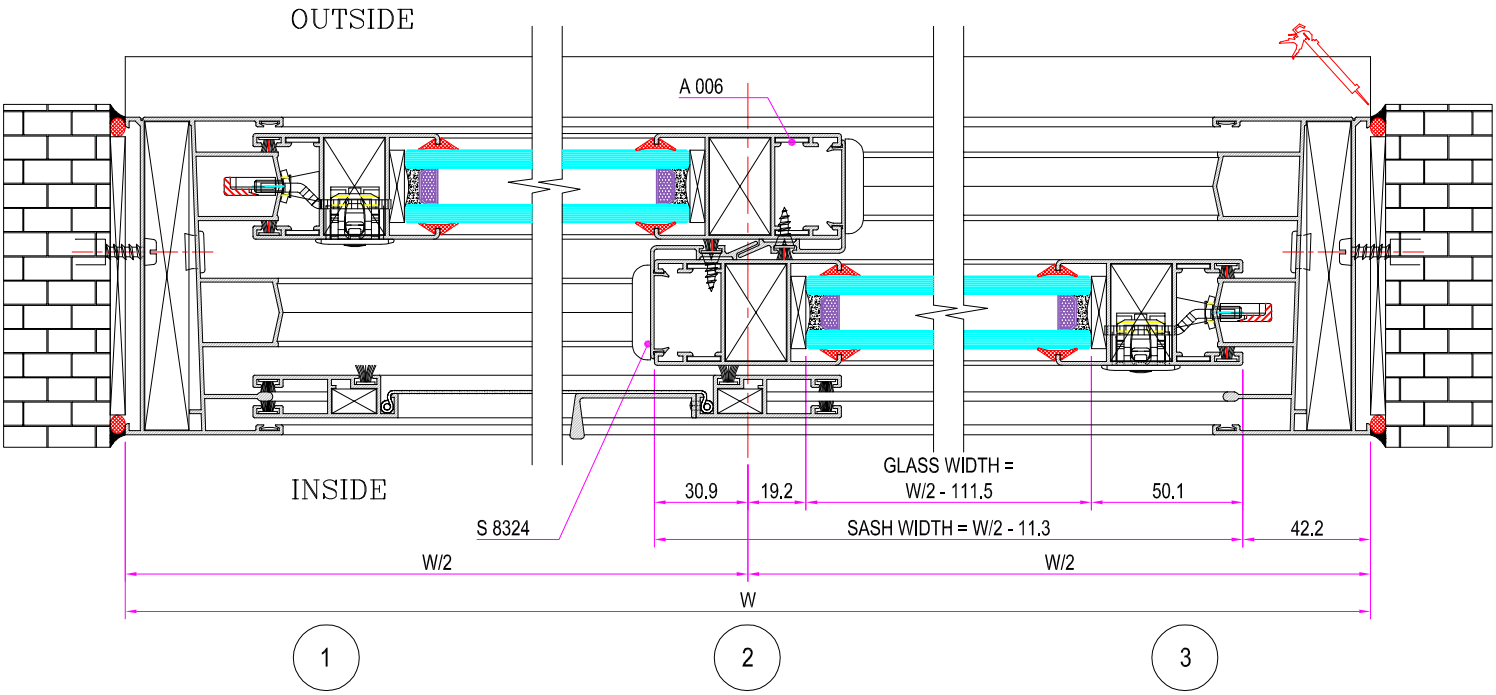


ELEVATION

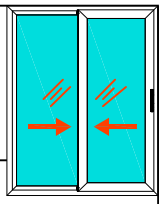
(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING





AL - WIN 105® SLIDING SERIES



DOUBLE TRACK SLIDING WINDOW

PROFILE CUTTING LIST FOR SLIDING WINDOW

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE NO.	PROFILE CUTTING ANGLE	PROFILE CUTTING SIZE	NO. OF PIECES	REMARKS
1	Frame Width	S 8300	45°	W	2	
2	Frame Height	S 8300	45°	H	2	
3	Sash Width	S 8321	45°	W/2-11.3	4	
4	Sash Height	S 8321	45°	H - 84.4	4	
5	Fly Screen Width	S 8323	45°	W/2-11.3	2	
6	Fly Screen Height	S 8323	45°	H - 84.4	2	
7	Inter Lock Height	S 8324	90°	H - 84.4	2	
8	Drainage Cover	2281	90°	W	1	
9	Corner Cleat For Frame	5574	90°	102	4	
10	Corner Cleat For Sash	5278	90°	32	8	
11	Corner Cleat For Fly Screen	5574	90°	11	4	

GASKET E.P.D.M

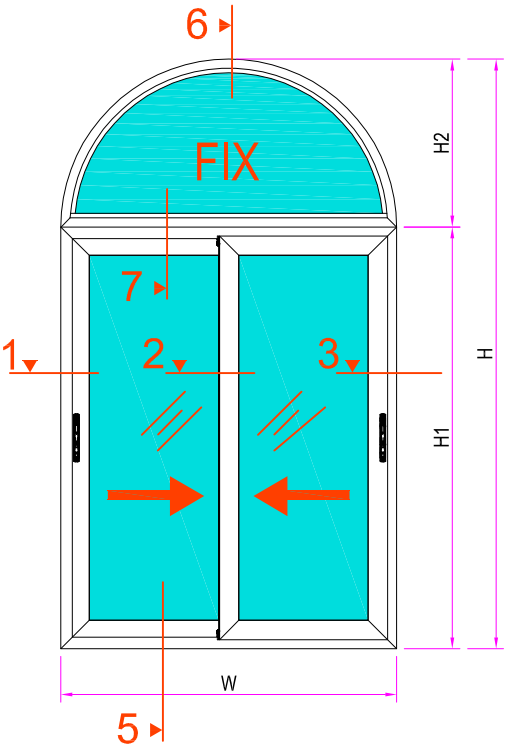
ITEM No.	GASKE CODE NO.	DESCRIPTION & GASKET SHAPE	QTY. LINEAR METER	REMARKS
1	GSL 313	GLAZING GASKET	4W + 8H	
2	GSL 305	Fly Screen Gasket 4Ø	1W + 2H	LOCALLY AVAILABLE
3	PB 307	FIN SEAL BRUSH FOR SASH PB69.600 FP FOR SASH	4W + 6H	LOCALLY AVAILABLE
4	PB 308	POLY BOND PB 4.8.550 3P FOR FLY SCREEN	3W + 6H	LOCALLY AVAILABLE

ACCESSORIES FOR SLIDING WINDOW

ITEM No.	ACCESSORIES CODE NO.	DESCRIPTION	QTY	REMARKS
1	A 030	BUMP RUBBER GUIDE	04	
2	A 031	ANTI THEFT COVER	04	
3	A 032	ROLLER FOR SASH (FOR WINDOWS)	04	
4	A 033	ROLLER FOR FLY SCREEN	02	
5	A 006	SASH ALIGNMENT CORNER	16	
6	A 007	FRAME ALIGNMENT CORNER	08	GIESSE 00365
7	A 008	WATER SLOTS COVER	03	GIESSE 02314
8	A 009	SLIDING HANDLE	02	GIESSE 02983
9	A 010	KEEPER & C.PLATE NIBS (KIT)	02	GIESSE E213 & 04897
10	A 011	COVER CAP 11.5mm	12	LOCALLY AVAILABLE
11	A 013	4.2X16 C'SUNK HEAD SELFTAPPING ST. SCREWS	48	LOCALLY AVAILABLE
12	A 014	3.9X13 C'SUNK HEAD SELFTAPPING ST.SCREWS	16	LOCALLY AVAILABLE
13	A 035	DUST PLUG 19MM	02	TO BE USED WITH S 8217

AL - WIN 105® SLIDING SERIES

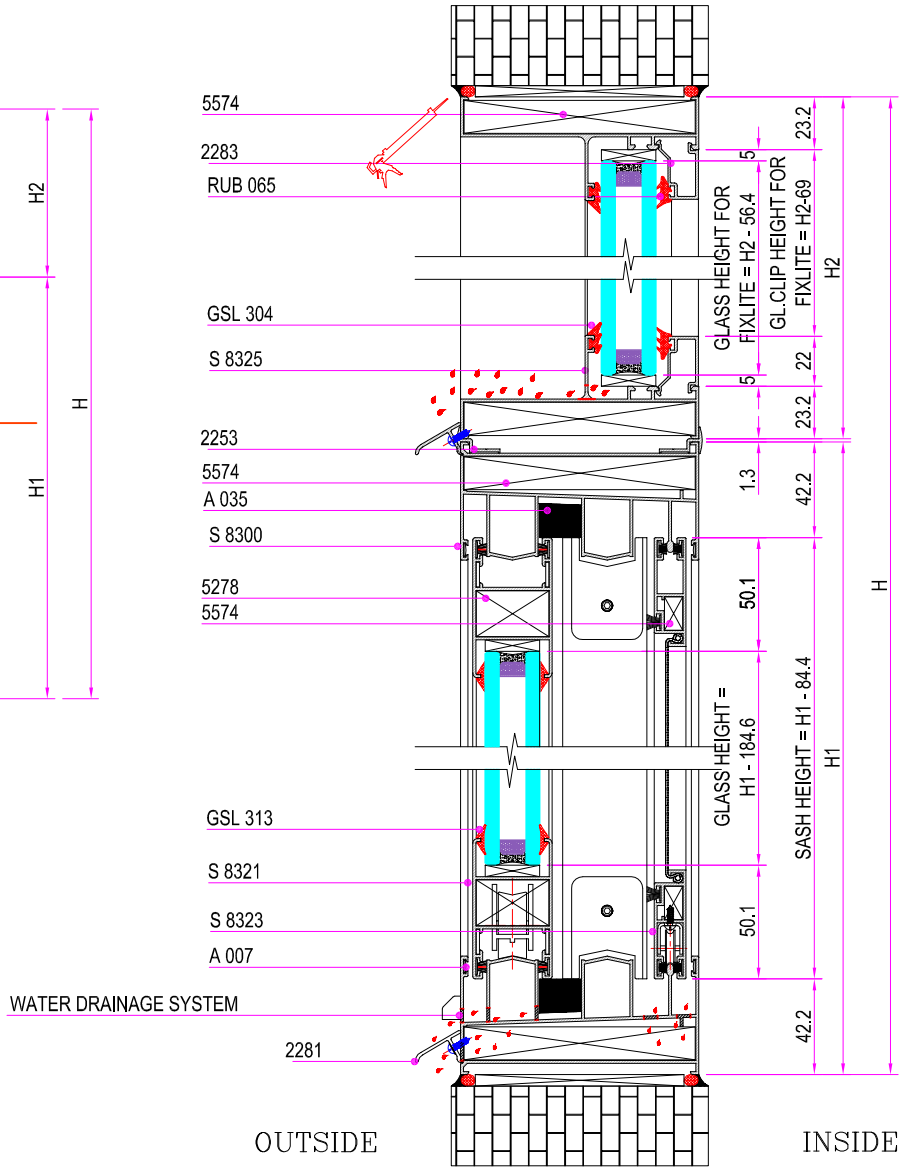
DOUBLE TRACK SLIDING WINDOW TOP FIXLITE (ARCH)

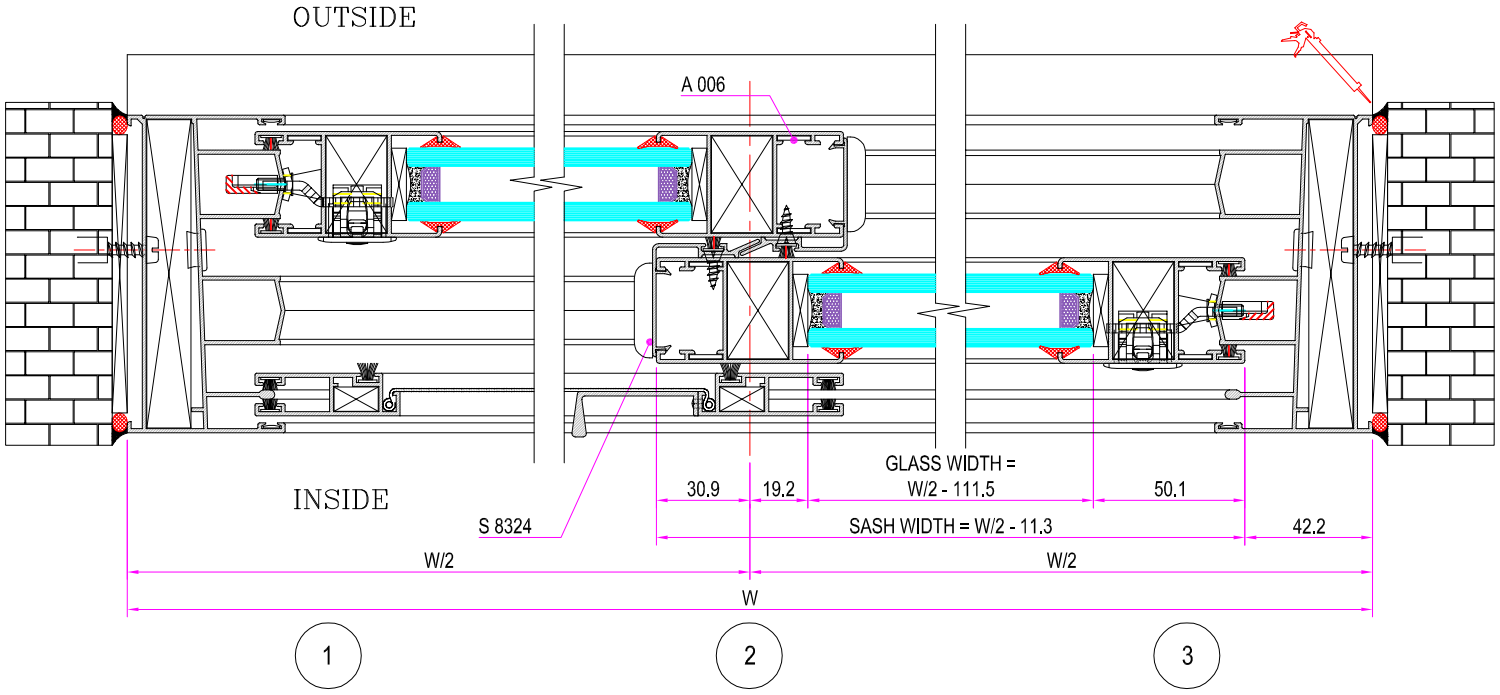


ELEVATION

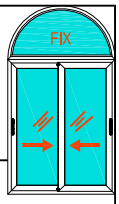
(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING





AL - WIN 105® SLIDING SERIES



DOUBLE TRACK SLIDING WINDOW TOP FIXLITE (ARCH)

PROFILE CUTTING LIST FOR SLIDING WINDOW

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE NO.	PROFILE CUTTING ANGLE	PROFILE CUTTING SIZE	NO. OF PIECES	REMARKS
1	Frame Width	S 8300	45°	W	2	
2	Frame Height	S 8300	45°	H1	2	
3	Sash Width	S 8321	45°	W/2-11.3	4	
4	Sash Height	S 8321	45°	H1-84.4	4	
5	Fly Screen Width	S 8323	45°	W/2-11.3	2	
6	Fly Screen Height	S 8323	45°	H1-84.4	2	
7	Frame Width	S 8325	45°	W	1	
8	Frame Height	S 8325	45°	H2-0.6	1	
9	GL.Clip Width	2283	90°	W- 46.4	1	
10	GL.Clip Height	2283	90°	H2-69	1	
11	Inter Lock Height	S 8324	90°	H1-84.4	2	
12	Drainage Cover	2281	90°	W	2	
13	Adopter	2253	90°	W	2	
14	Corner Cleat For Frame	5574	90°	102	4	
15	Corner Cleat For Sash	5278	90°	32	8	
16	Corner Cleat For Fly Screen	5574	90°	11	4	

GASKET E.P.D.M

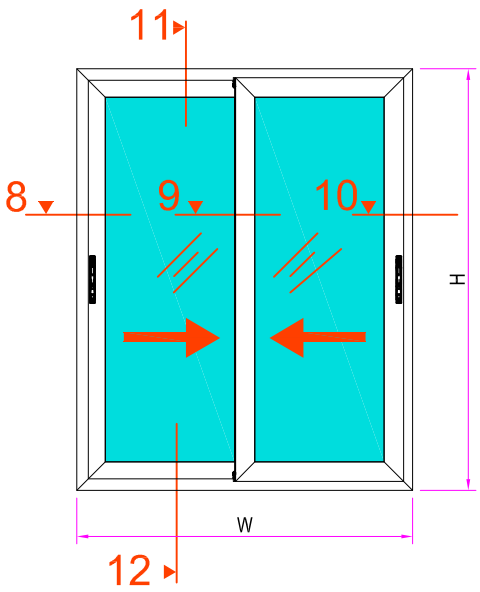
ITEM No.	GASKE CODE NO.	DESCRIPTION & GASKET SHAPE	QTY. LINEAR METER	REMARKS
1	GSL 313	GLAZING GASKET	4W + 8H	
2	GSL 304	GLAZING GASKET	3W	
3	RUB 065	GLAZING GASKET	3W	
4	GSL 305	Fly Screen Gasket 4Ø	1W + 2H	LOCALLY AVAILABLE
5	PB 307	FIN SEAL BRUSH PB69.600 FP FOR SASH	4W + 6H	LOCALLY AVAILABLE
6	PB 308	POLY BOND PB 4.8.550 3P FOR FLY SCREEN	3W + 6H	LOCALLY AVAILABLE

ACCESSORIES FOR SLIDING WINDOW

ITEM No.	ACCESSORIES CODE NO.	DESCRIPTION	QTY	REMARKS
1	A 030	BUMP RUBBER GUIDE	04	
2	A 031	ANTI THEFT COVER	04	
3	A 032	ROLLER FOR SASH (FOR WINDOWS)	04	
4	A 033	ROLLER FOR FLY SCREEN	02	
5	A 006	SASH ALIGNMENT CORNER	16	
6	A 007	FRAME ALIGNMENT CORNER	08	GIESSE 00365
7	A 008	WATER SLOTS COVER	06	GIESSE 02314
8	A 009	SLIDING HANDLE	02	GIESSE 02983
9	A 010	KEEPER & C.PLATE NIBS (KIT)	02	GIESSE E213 & 04897
10	A 011	COVER CAP 11.5mm	12	LOCALLY AVAILABLE
11	A 013	4.2X16 C'SUNK HEAD SELFTAPPING ST. SCREWS	48	LOCALLY AVAILABLE
12	A 014	3.9X13 C'SUNK HEAD SELFTAPPING ST.SCREWS	16	LOCALLY AVAILABLE
13	A 035	DUST PLUG 19MM	02	TO BE USED WITH S 8217

AL - WIN 105® SLIDING SERIES

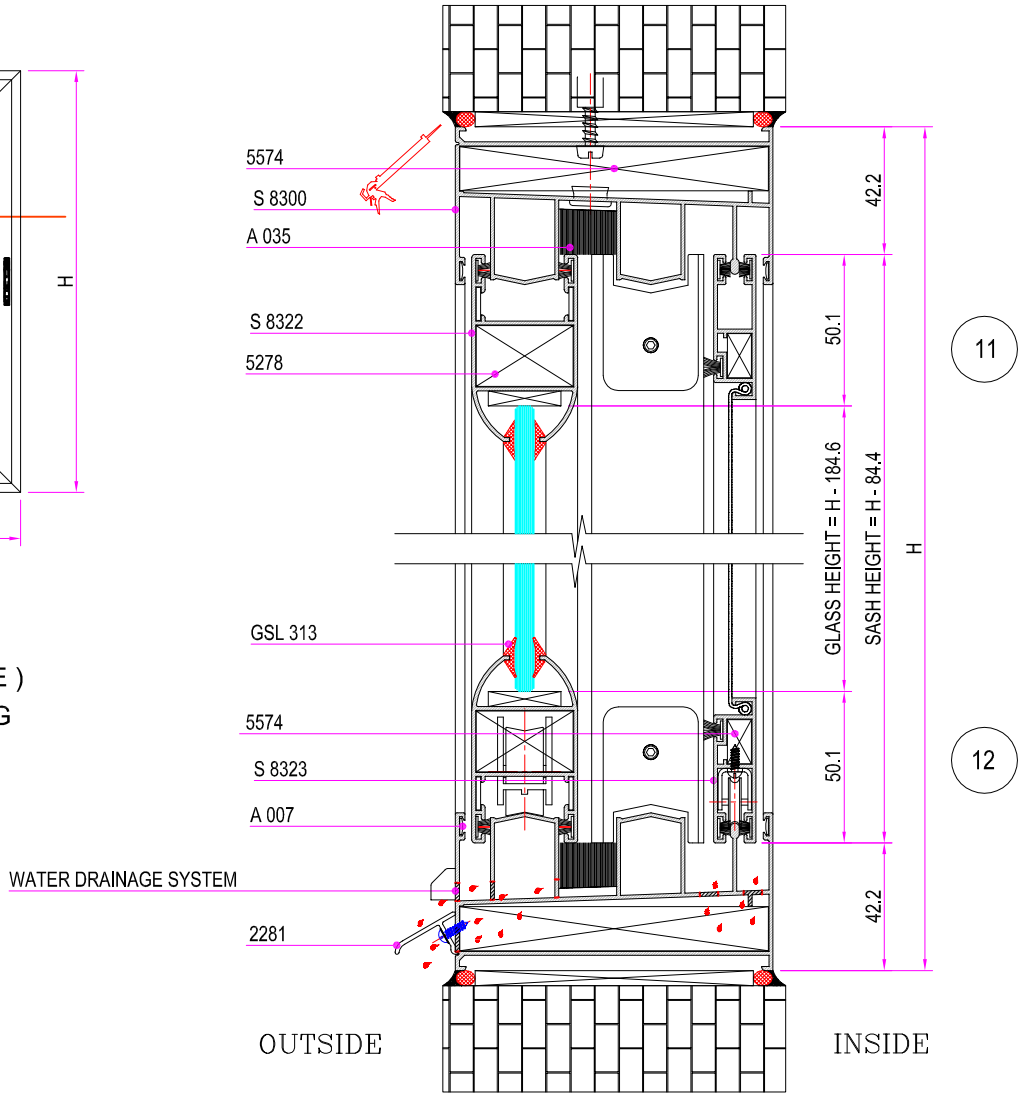
DOUBLE TRACK SLIDING WINDOW

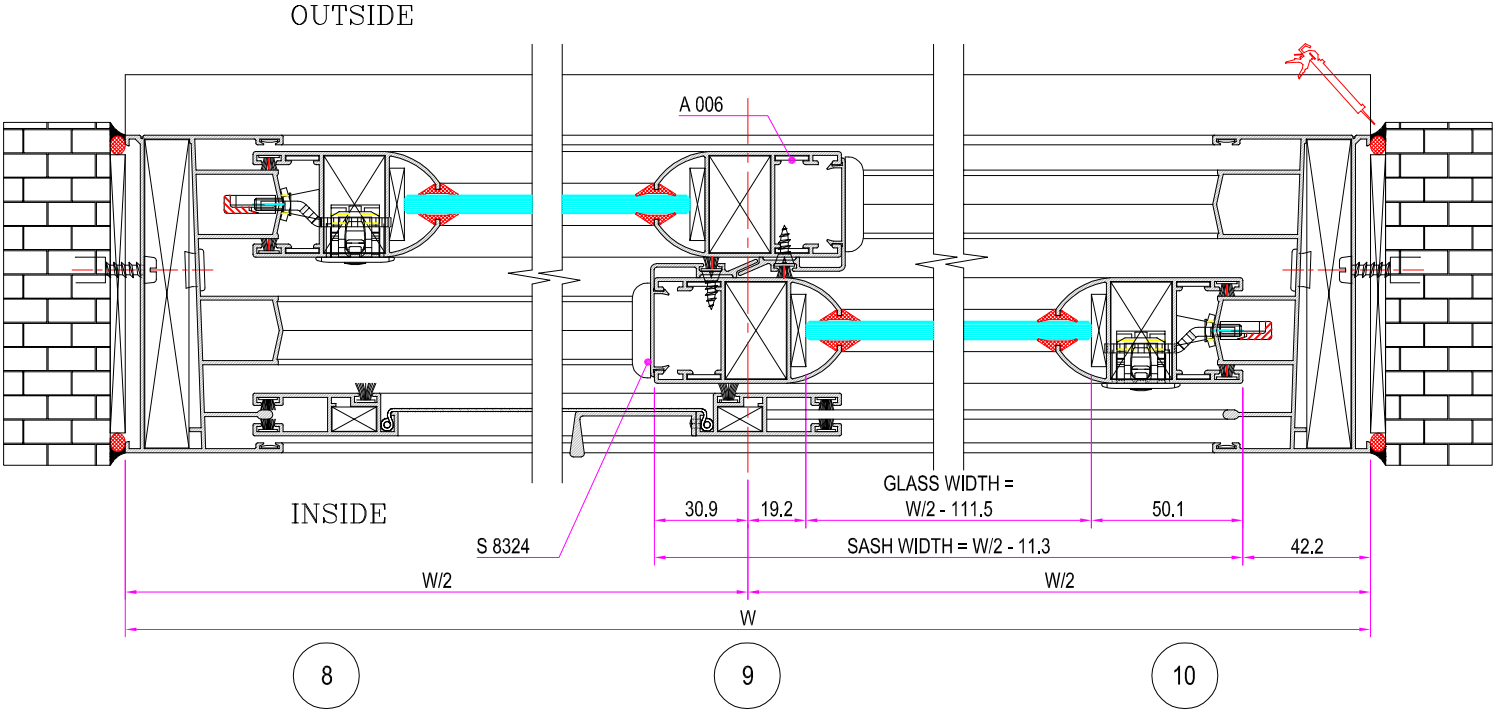


ELEVATION

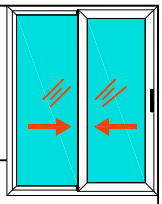
(VIEWED FROM INSIDE)

6mm SINGLE GLAZING



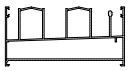
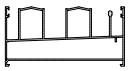
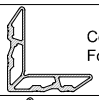
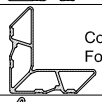


AL - WIN 105® SLIDING SERIES



DOUBLE TRACK SLIDING WINDOW

PROFILE CUTTING LIST FOR SLIDING WINDOW

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE NO.	PROFILE CUTTING ANGLE	PROFILE CUTTING SIZE	NO. OF PIECES	REMARKS
1	 Frame Width	S 8300	45°	W	2	
2	 Frame Height	S 8300	45°	H	2	
3	 Sash Width	S 8322	45°	W/2-11.3	4	
4	 Sash Height	S 8322	45°	H - 84.4	4	
5	 Fly Screen Width	S 8323	45°	W/2-11.3	2	
6	 Fly Screen Height	S 8323	45°	H - 84.4	2	
7	 Inter Lock Height	S 8324	90°	H - 84.4	2	
8	 Drainage Cover	2281	90°	W	1	
9	 Corner Cleat For Frame	5574	90°	102	4	
10	 Corner Cleat For Sash	5278	90°	32	8	
11	 Corner Cleat For Fly Screen	5574	90°	11	4	

GASKET E.P.D.M

ITEM No.	GASKE CODE NO.	DESCRIPTION & GASKET SHAPE	QTY. LINEAR METER	REMARKS
1	GSL 313	 GLAZING GASKET	4W + 8H	
2	GSL 305	 Fly Screen Gasket 4Ø	1W + 2H	LOCALLY AVAILABLE
3	PB 307	FIN SEAL BRUSH FOR SASH PB69.600 FP  FOR SASH	4W + 6H	LOCALLY AVAILABLE
4	PB 308	 POLY BOND PB 4.8.550 3P FOR FLY SCREEN	3W + 6H	LOCALLY AVAILABLE

ACCESSORIES FOR SLIDING WINDOW

ITEM No.	ACCESSORIES CODE NO.	DESCRIPTION	QTY	REMARKS
1	A 030	BUMP RUBBER GUIDE	04	
2	A 031	ANTI THEFT COVER	04	
3	A 032	ROLLER FOR SASH (FOR WINDOWS)	04	
4	A 033	ROLLER FOR FLY SCREEN	02	
5	A 006	SASH ALIGNMENT CORNER	16	
6	A 007	FRAME ALIGNMENT CORNER	08	GIESSE 00365
7	A 008	WATER SLOTS COVER	03	GIESSE 02314
8	A 009	SLIDING HANDLE	02	GIESSE 02983
9	A 010	KEEPER & C.PLATE NIBS (KIT)	02	GIESSE E213 & 04897
10	A 011	COVER CAP 11.5mm	12	LOCALLY AVAILABLE
11	A 013	4.2X16 C'SUNK HEAD SELFTAPPING ST. SCREWS	48	LOCALLY AVAILABLE
12	A 014	3.9X13 C'SUNK HEAD SELFTAPPING ST.SCREWS	16	LOCALLY AVAILABLE
13	A 035	DUST PLUG 19MM	02	TO BE USED WITH S 8217

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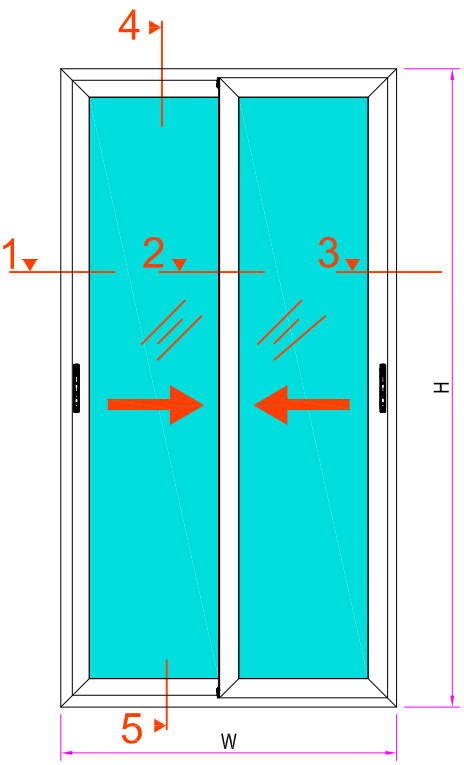
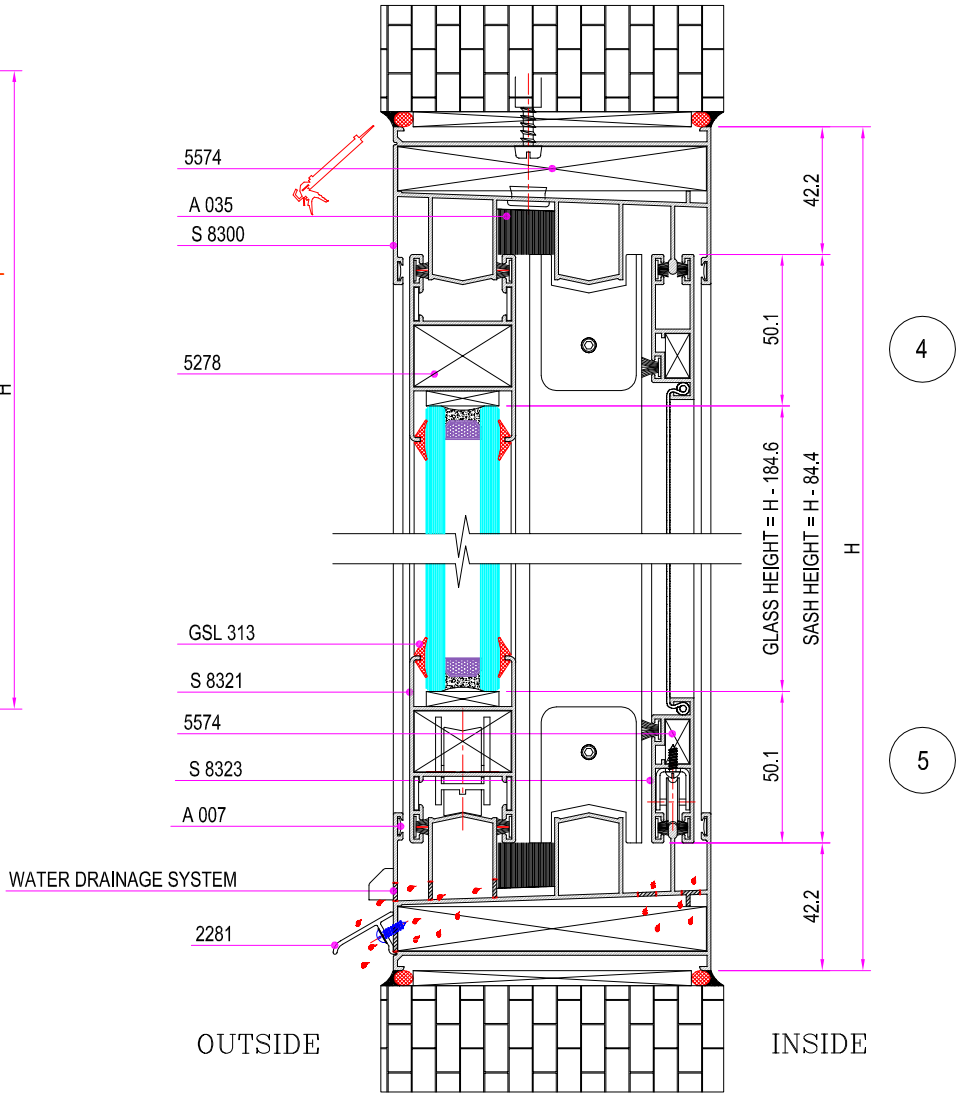
DOUBLE TRACK SLIDING DOOR

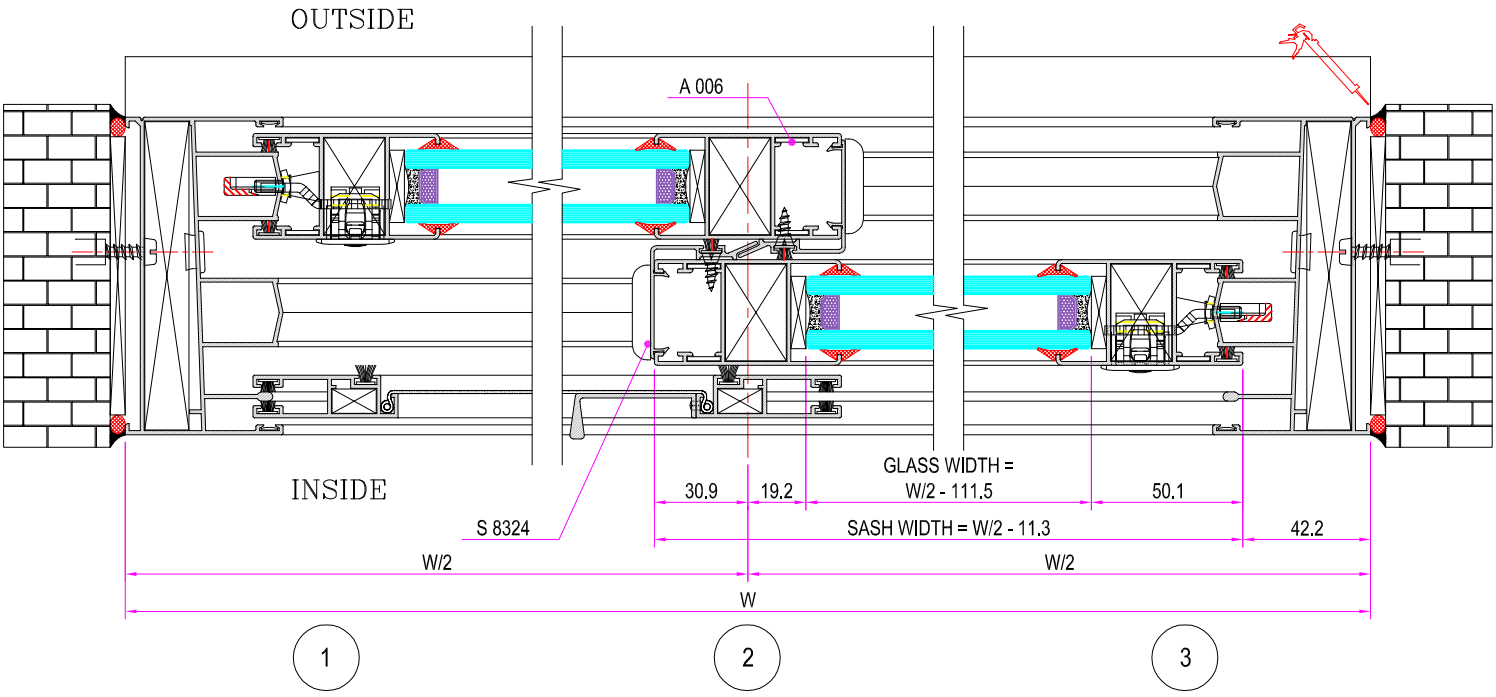


ELEVATION

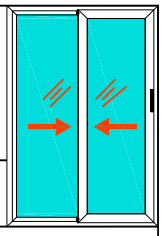
(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING





AL - WIN 105® SLIDING SERIES



DOUBLE TRACK SLIDING DOOR

PROFILE CUTTING LIST FOR SLIDING WINDOW

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE NO.	PROFILE CUTTING ANGLE	PROFILE CUTTING SIZE	NO. OF PIECES	REMARKS
1	Frame Width	S 8300	45°	W	2	
2	Frame Height	S 8300	45°	H	2	
3	Sash Width	S 8321	45°	W/2-11.3	4	
4	Sash Height	S 8321	45°	H - 84.4	4	
5	Fly Screen Width	S 8323	45°	W/2-11.3	2	
6	Fly Screen Height	S 8323	45°	H - 84.4	2	
7	Inter Lock Height	S 8324	90°	H - 84.4	2	
8	Drainage Cover	2281	90°	W	1	
9	Corner Cleat For Frame	5574	90°	102	4	
10	Corner Cleat For Sash	5278	90°	32	8	
11	Corner Cleat For Fly Screen	5574	90°	11	4	

GASKET E.P.D.M

ITEM No.	GASKE CODE NO.	DESCRIPTION & GASKET SHAPE	QTY. LINEAR METER	REMARKS
1	GSL 313	GLAZING GASKET	4W + 8H	
2	GSL 305	Fly Screen Gasket 4Ø	1W + 2H	LOCALLY AVAILABLE
3	PB 307	FIN SEAL BRUSH FOR SASH PB69.600 FP FOR SASH	4W + 6H	LOCALLY AVAILABLE
4	PB 308	POLY BOND PB 4.8.550 3P FOR FLY SCREEN	3W + 6H	LOCALLY AVAILABLE

ACCESSORIES FOR SLIDING WINDOW

ITEM No.	ACCESSORIES CODE NO.	DESCRIPTION	QTY	REMARKS
1	A 030	BUMP RUBBER GUIDE	04	
2	A 031	ANTI THEFT COVER	04	
3	A 034	ROLLER FOR SASH (FOR DOORS)	04	
4	A 033	ROLLER FOR FLY SCREEN	02	
5	A 006	SASH ALIGNMENT CORNER	16	
6	A 007	FRAME ALIGNMENT CORNER	08	GIESSE 00365
7	A 008	WATER SLOTS COVER	03	GIESSE 02314
8	A 016	SLIDING HANDLE	02	GIESSE 03353
9	A 017	PULLING HANDLE FOR DOOR	02	GIESSE 03055
10	A 010	KEEPER & C.PLATE NIBS (KIT)	02	GIESSE E213 & 04897
11	A 011	COVER CAP 11.5mm	12	LOCALLY AVAILABLE
12	A 013	4.2X16 C'SUNK HEAD SELFTAPPING ST. SCREWS	48	LOCALLY AVAILABLE
13	A 014	3.9X13 C'SUNK HEAD SELFTAPPING ST.SCREWS	16	LOCALLY AVAILABLE
14	A 035	DUST PLUG 19MM	02	TO BE USED WITH S 8217

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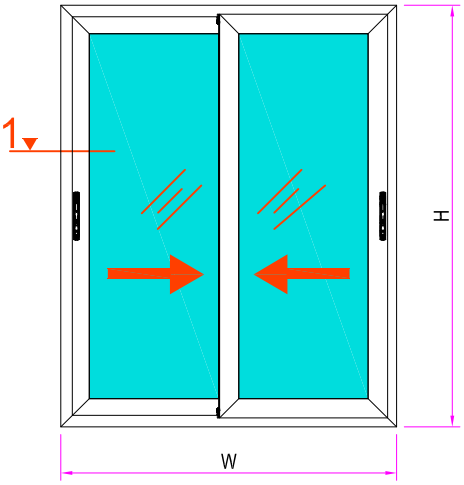
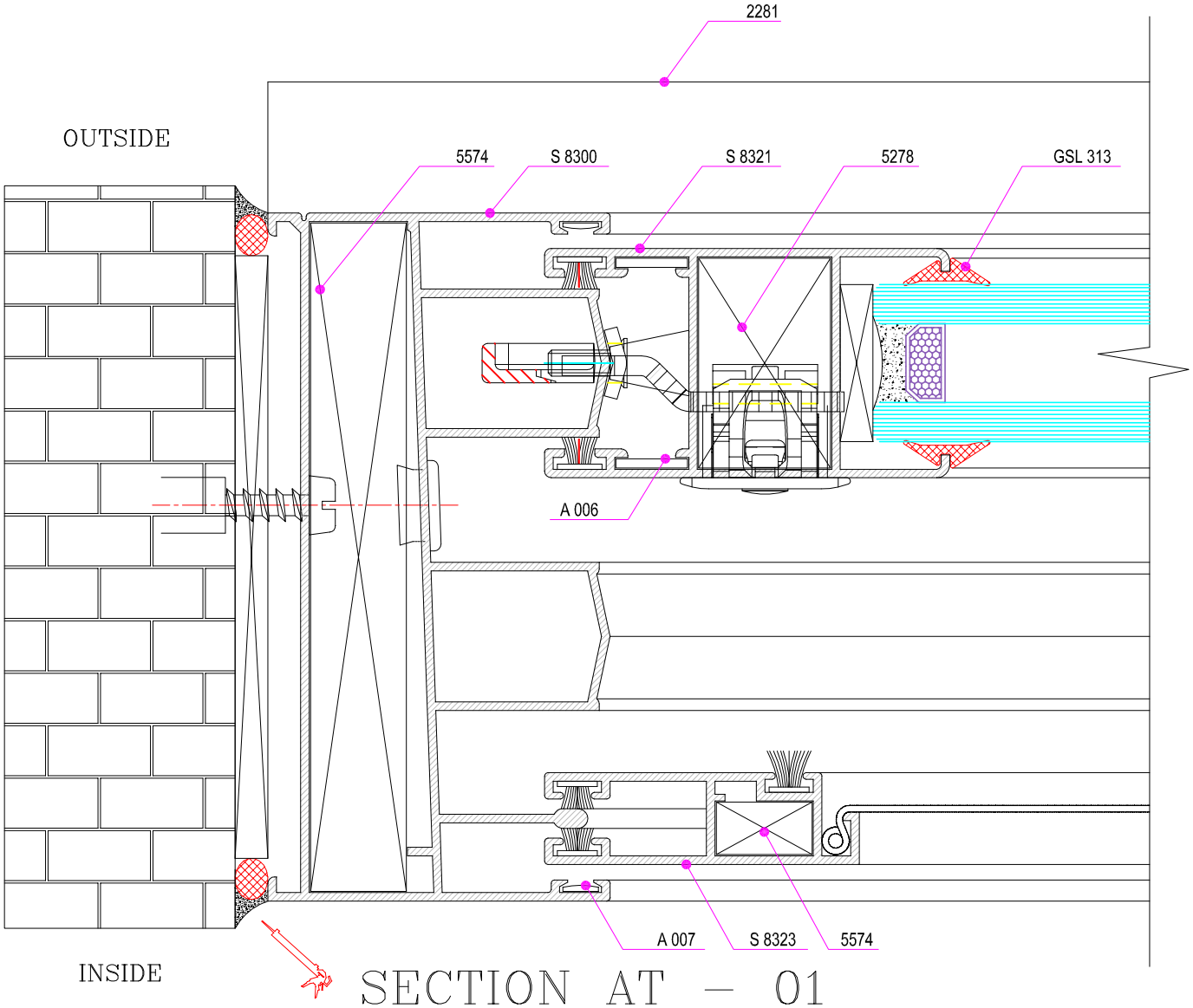
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

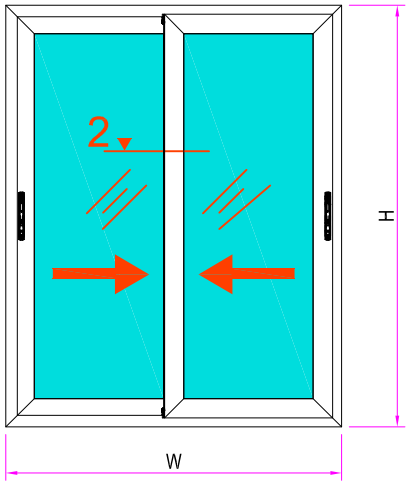
24mm DOUBLE GLAZING



SECTION AT – 01

AL - WIN 105® SLIDING SERIES

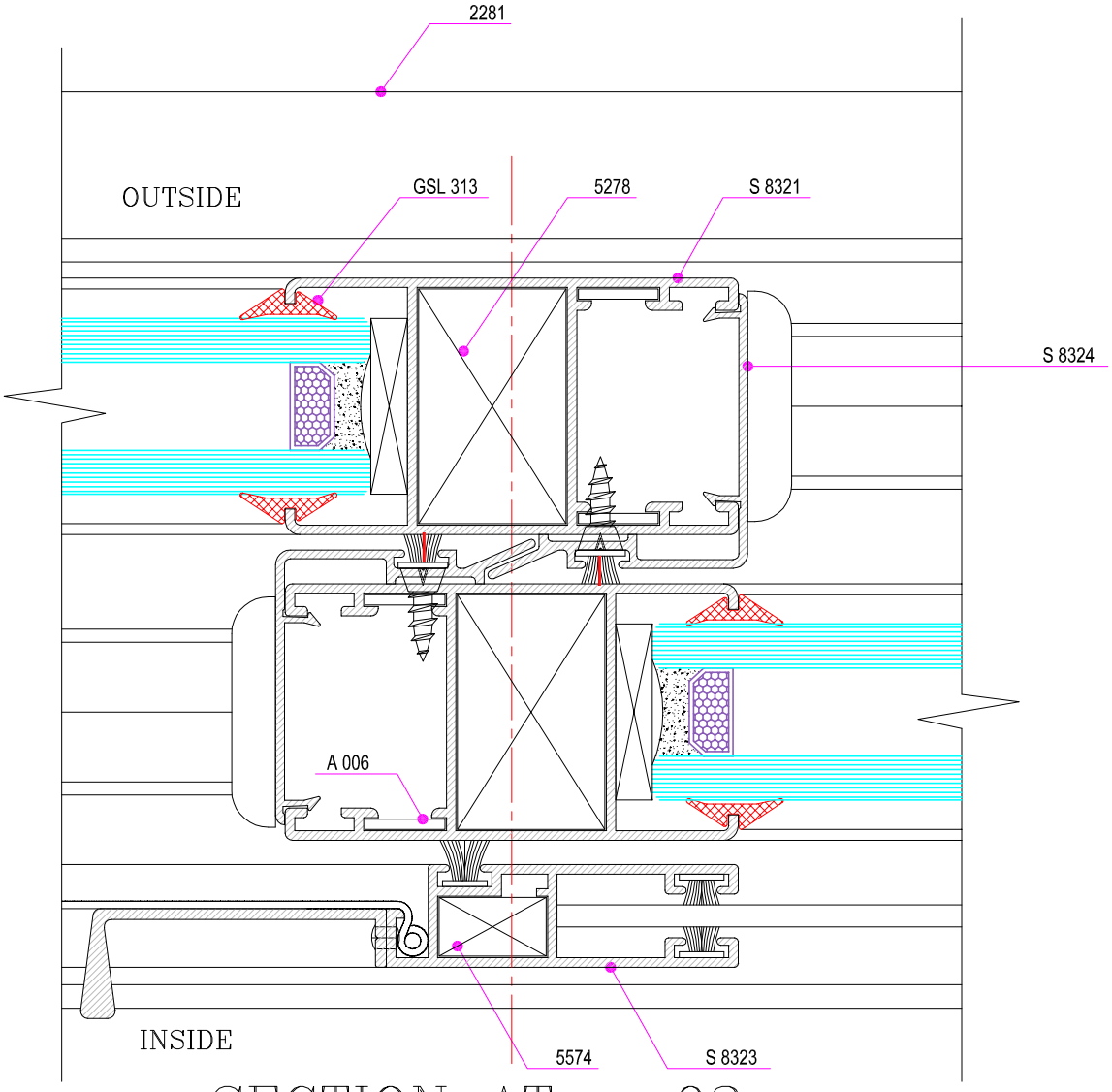
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

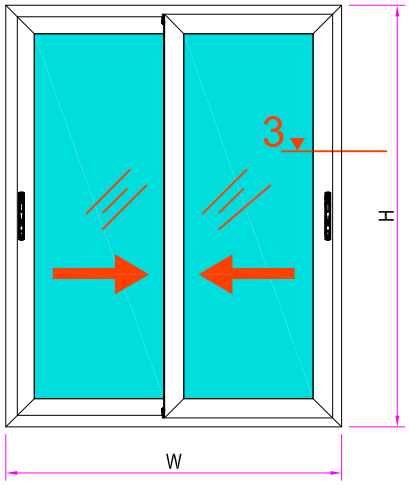
24mm DOUBLE GLAZING



SECTION AT – 02

AL - WIN 105® SLIDING SERIES

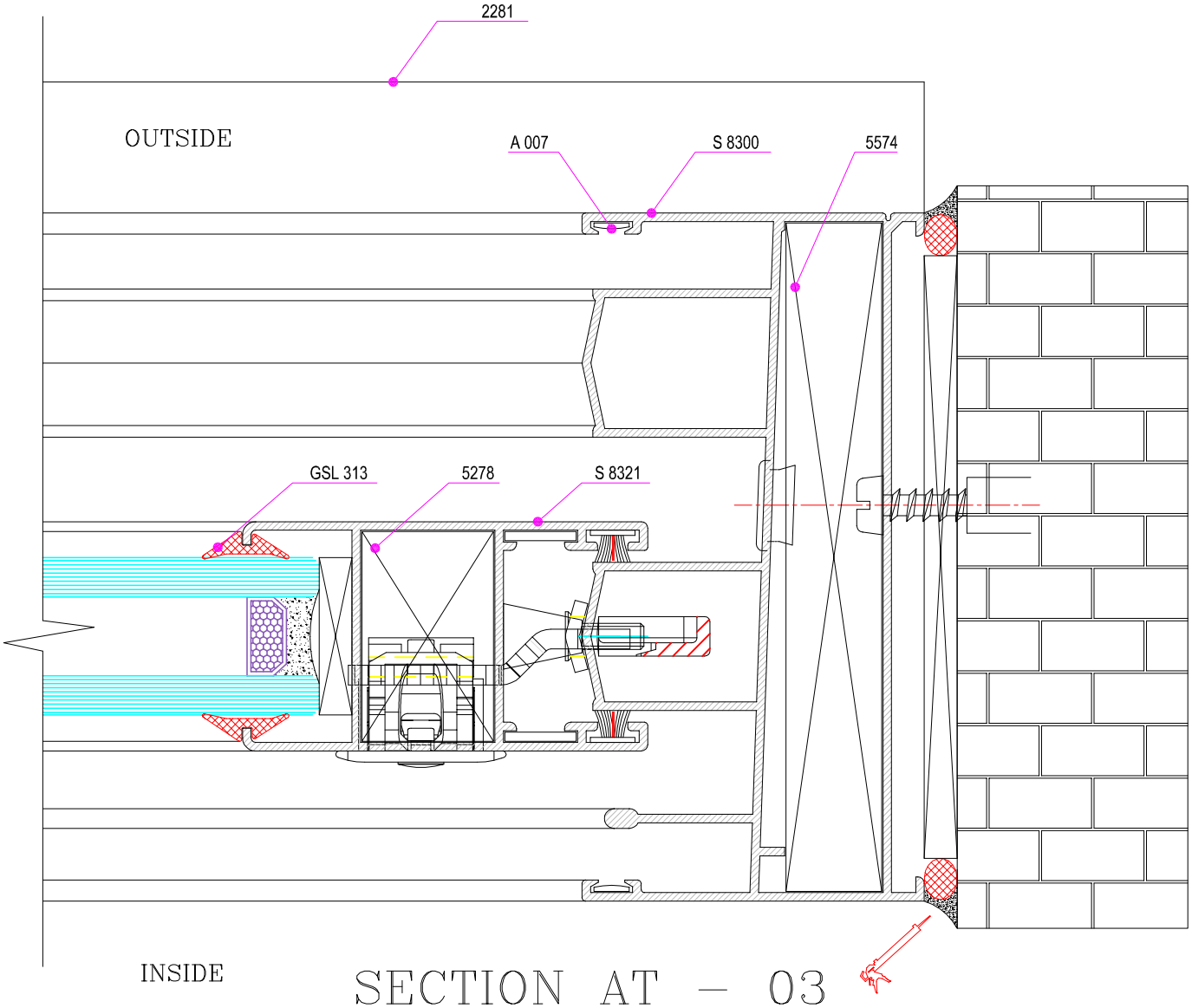
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

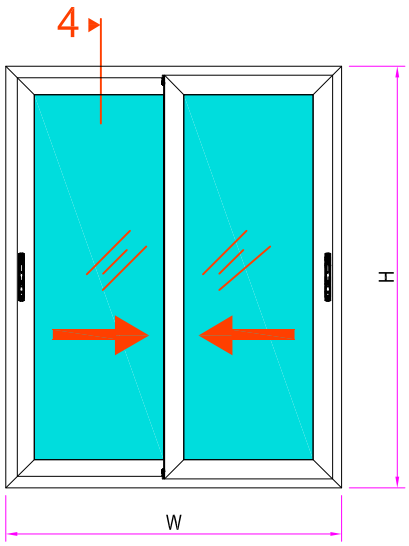
24mm DOUBLE GLAZING



SECTION AT – 03

AL - WIN 105® SLIDING SERIES

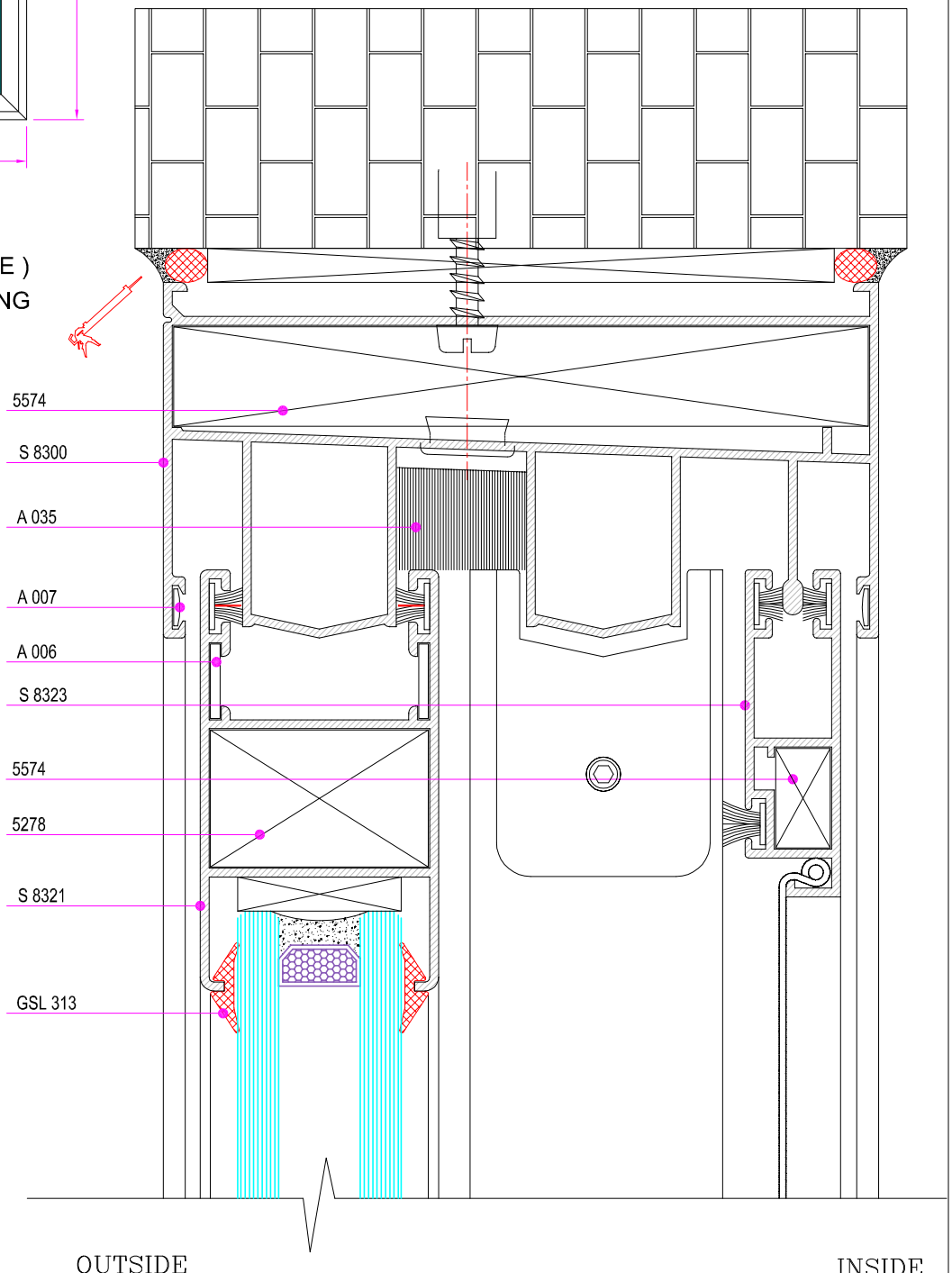
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

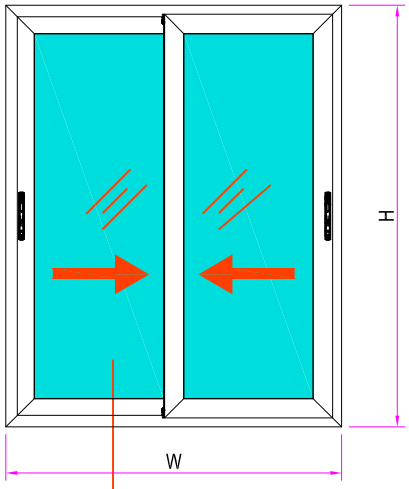
24mm DOUBLE GLAZING



SECTION AT – 04

AL - WIN 105® SLIDING SERIES

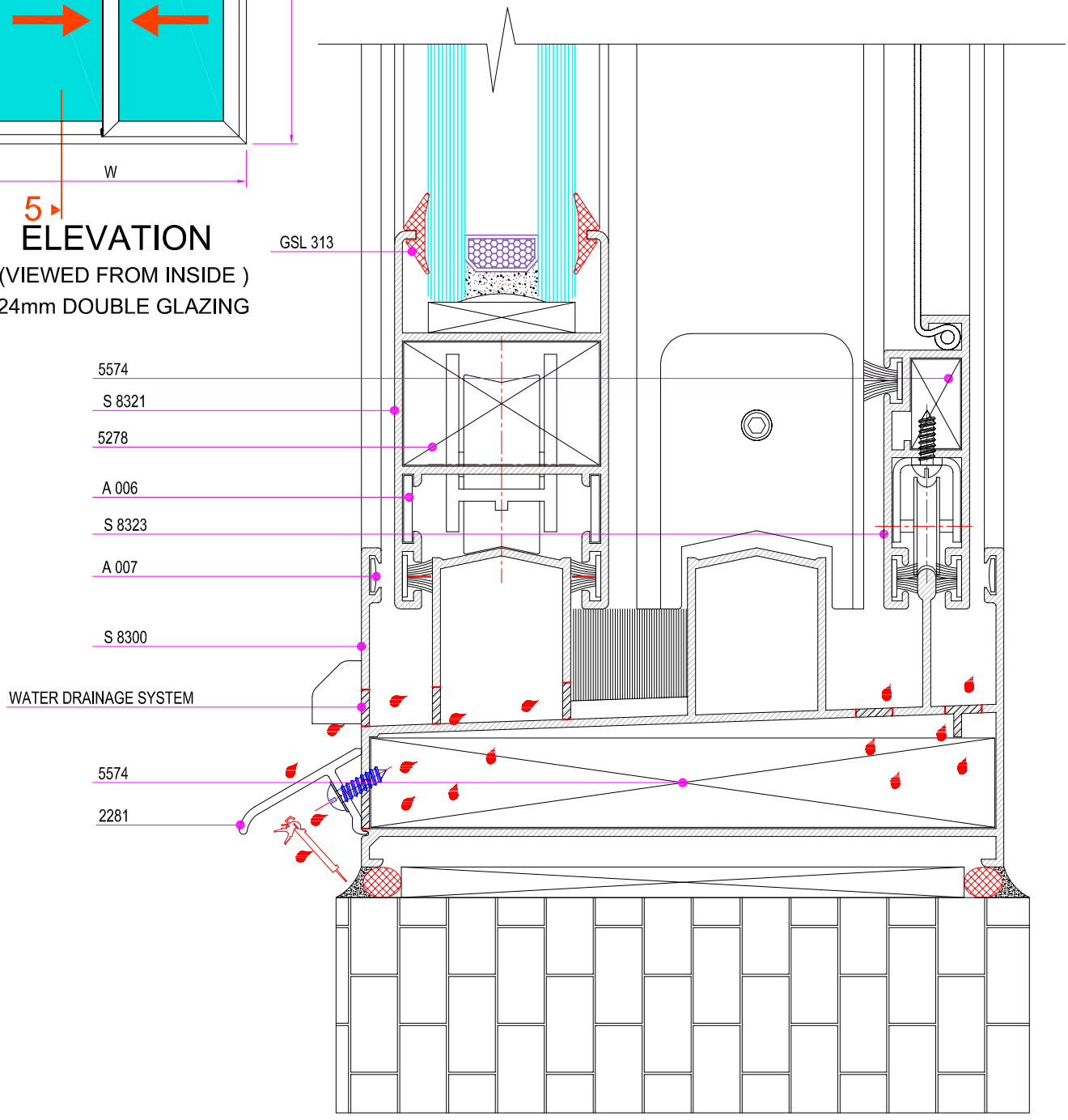
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING



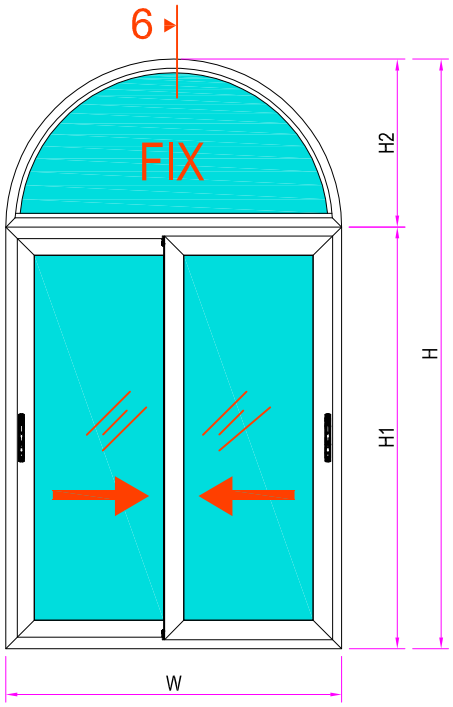
OUTSIDE

INSIDE

SECTION AT – 05

AL - WIN 105® SLIDING SERIES

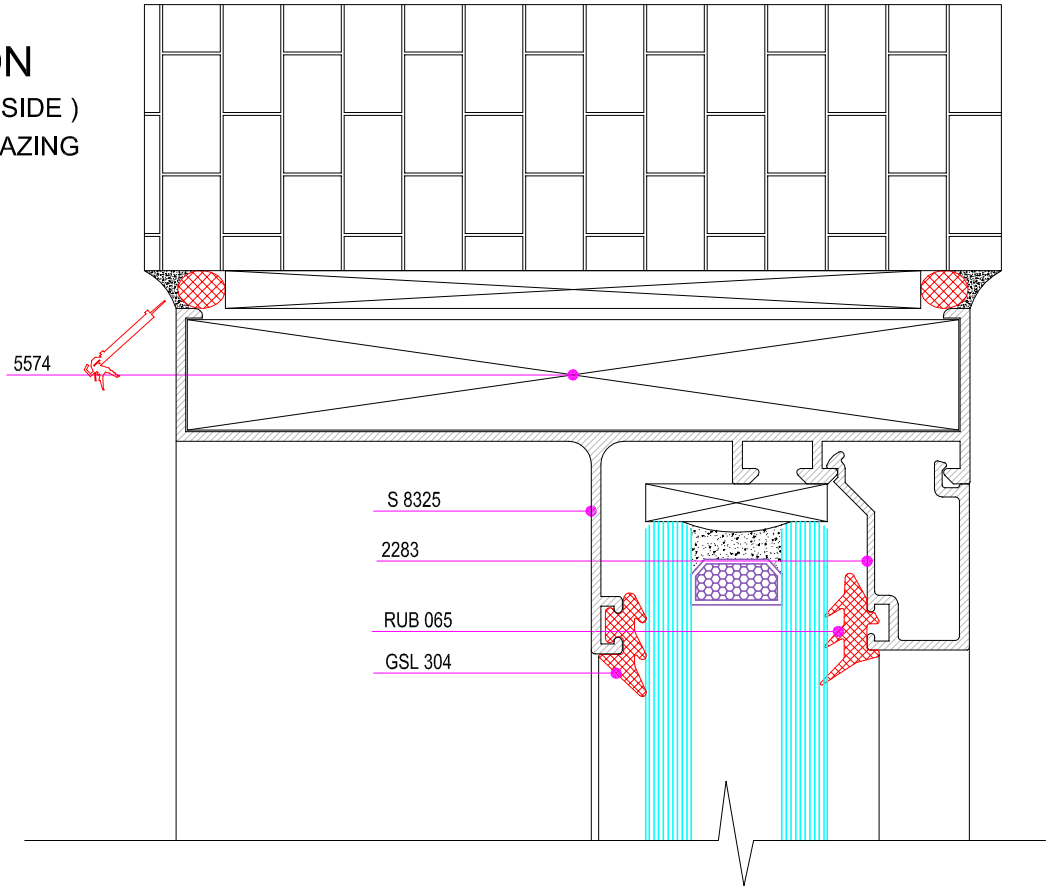
DOUBLE TRACK SLIDING WINDOW TOP FIXLITE (ARCH)



ELEVATION

(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING



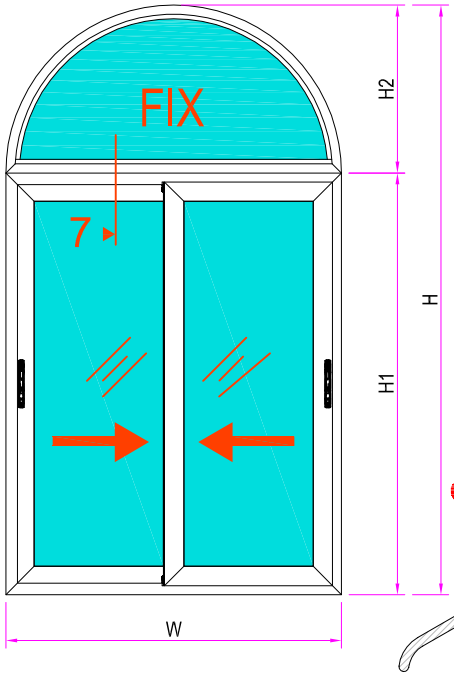
OUTSIDE

INSIDE

SECTION AT – 06

AL - WIN 105® SLIDING SERIES

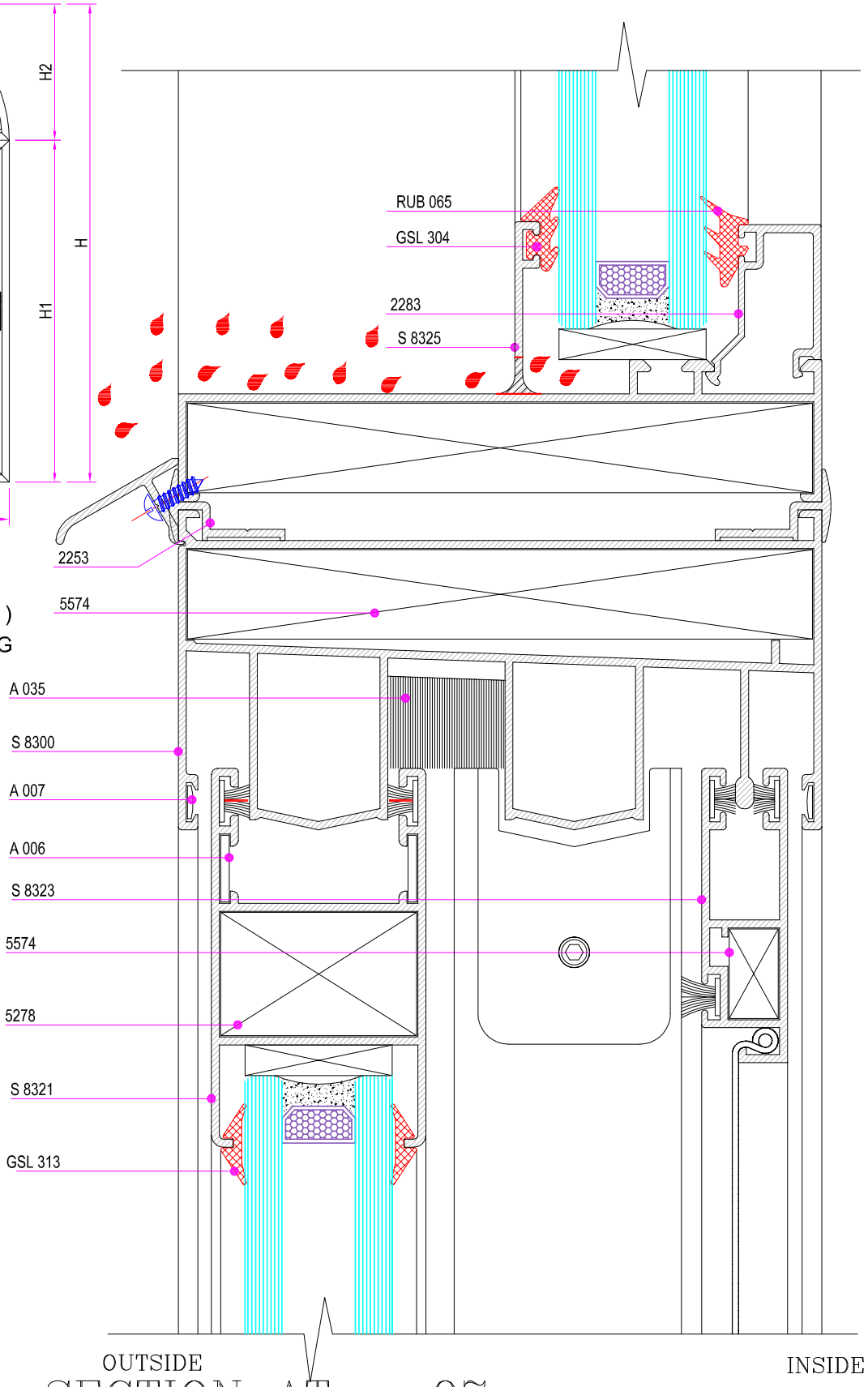
DOUBLE TRACK SLIDING WINDOW TOP FIXLITE (ARCH)



ELEVATION

(VIEWED FROM INSIDE)

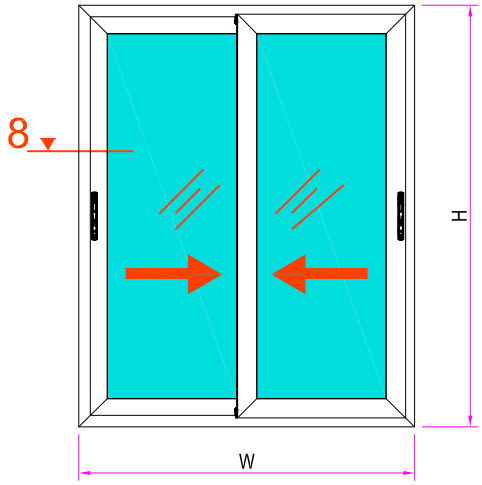
24mm DOUBLE GLAZING



SECTION AT – 07

AL - WIN 105® SLIDING SERIES

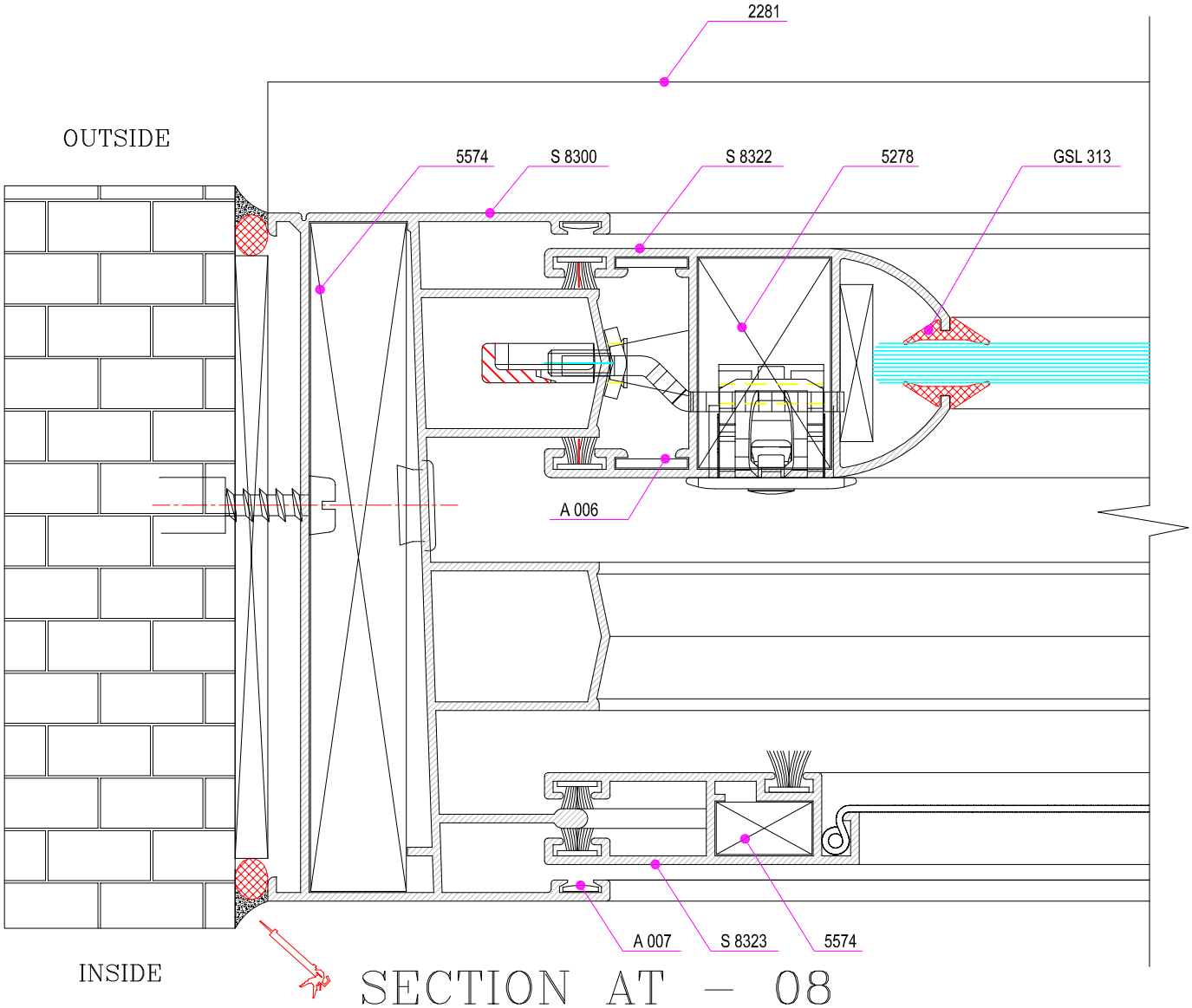
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

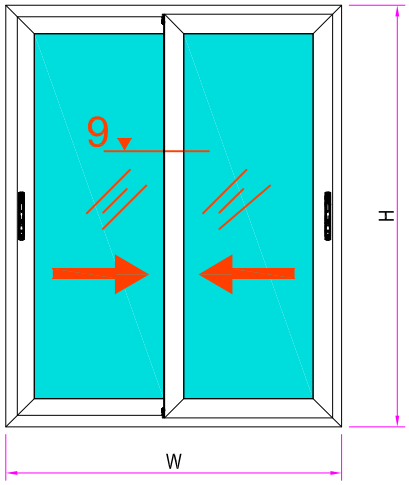
6mm SINGLE GLAZING



SECTION AT – 08

AL - WIN 105® SLIDING SERIES

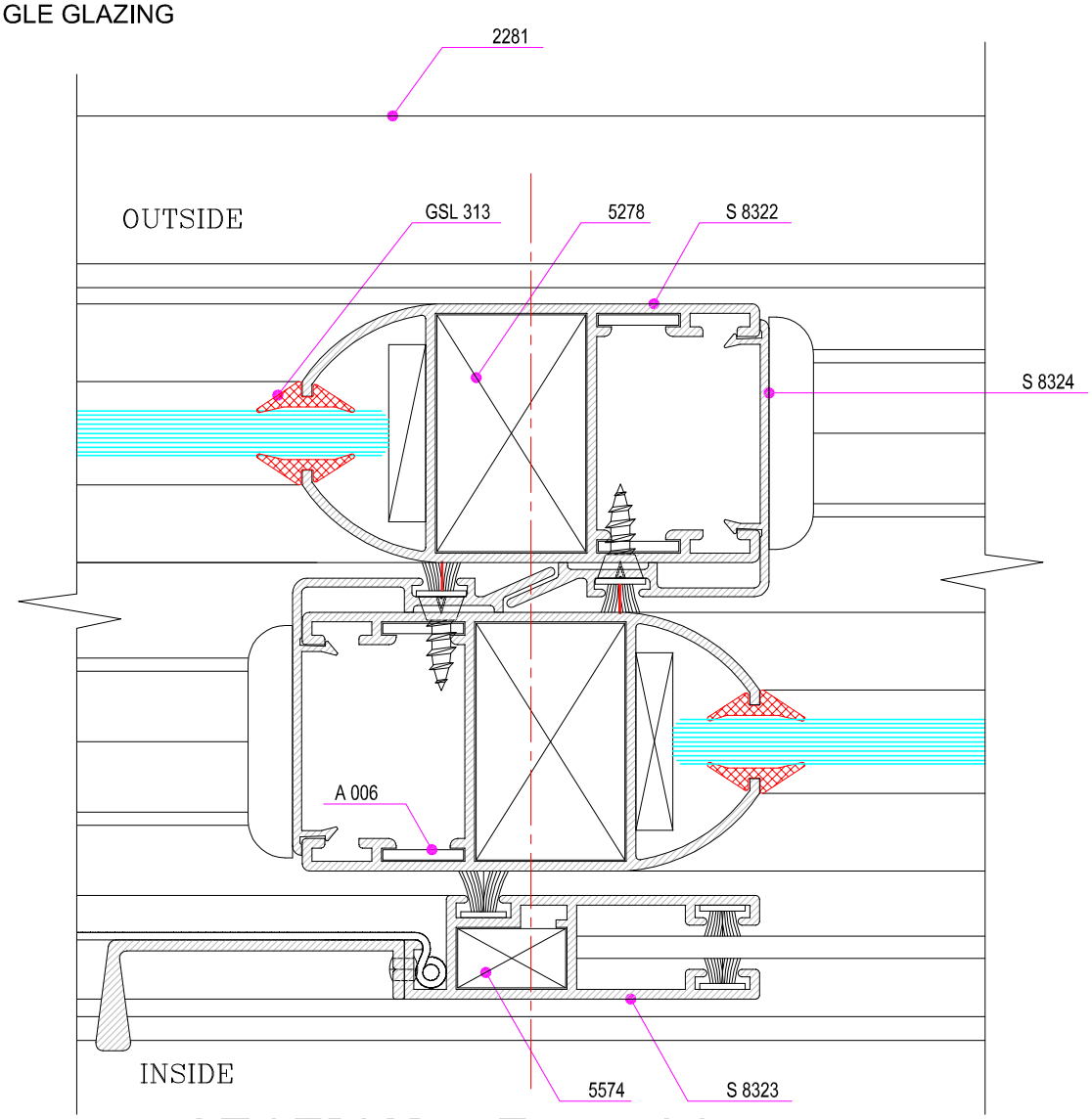
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

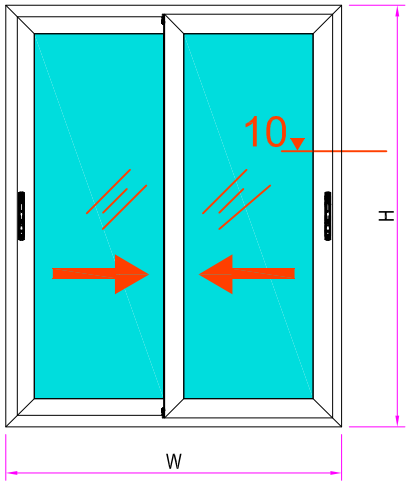
6mm SINGLE GLAZING



SECTION AT – 09

AL - WIN 105® SLIDING SERIES

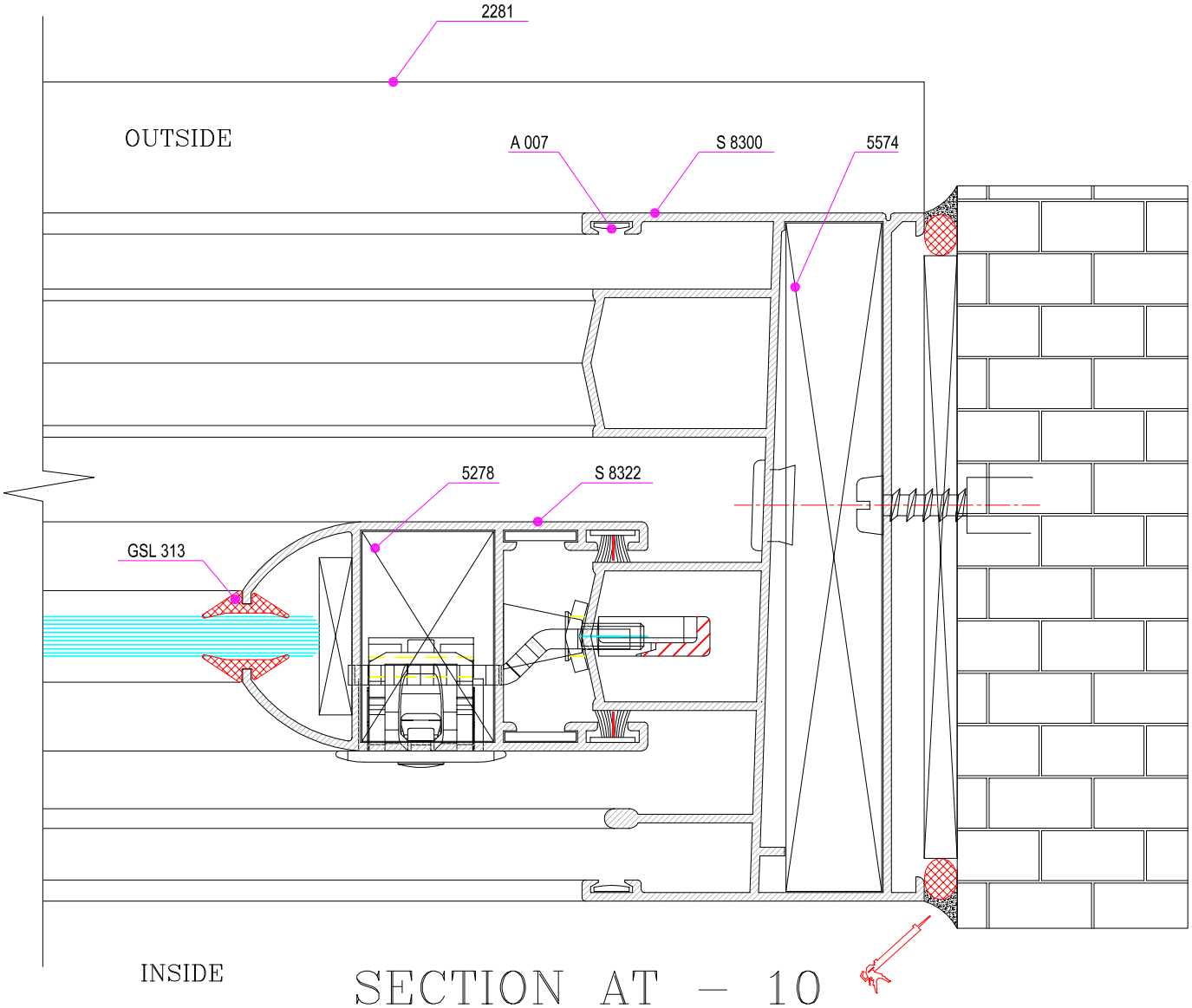
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

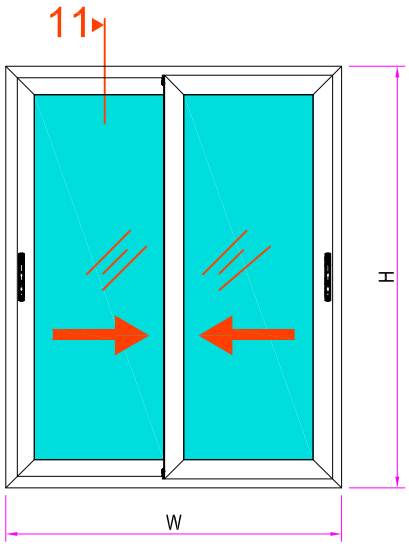
6mm SINGLE GLAZING



SECTION AT – 10

AL - WIN 105® SLIDING SERIES

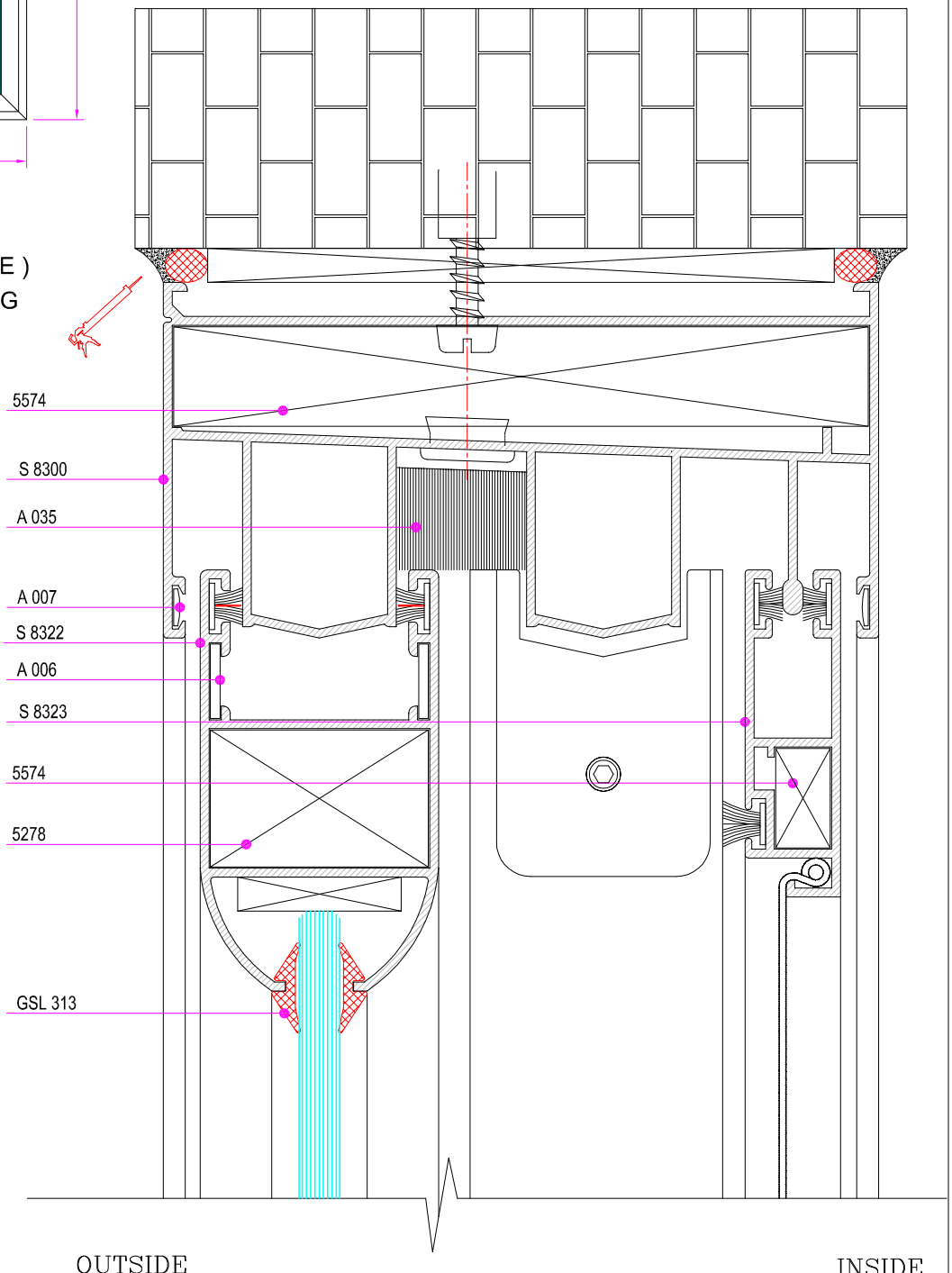
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

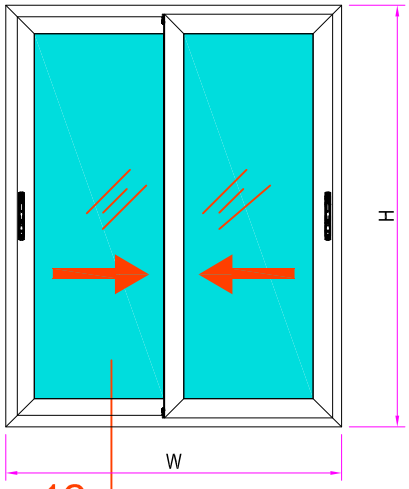
6mm SINGLE GLAZING



SECTION AT – 11

AL - WIN 105® SLIDING SERIES

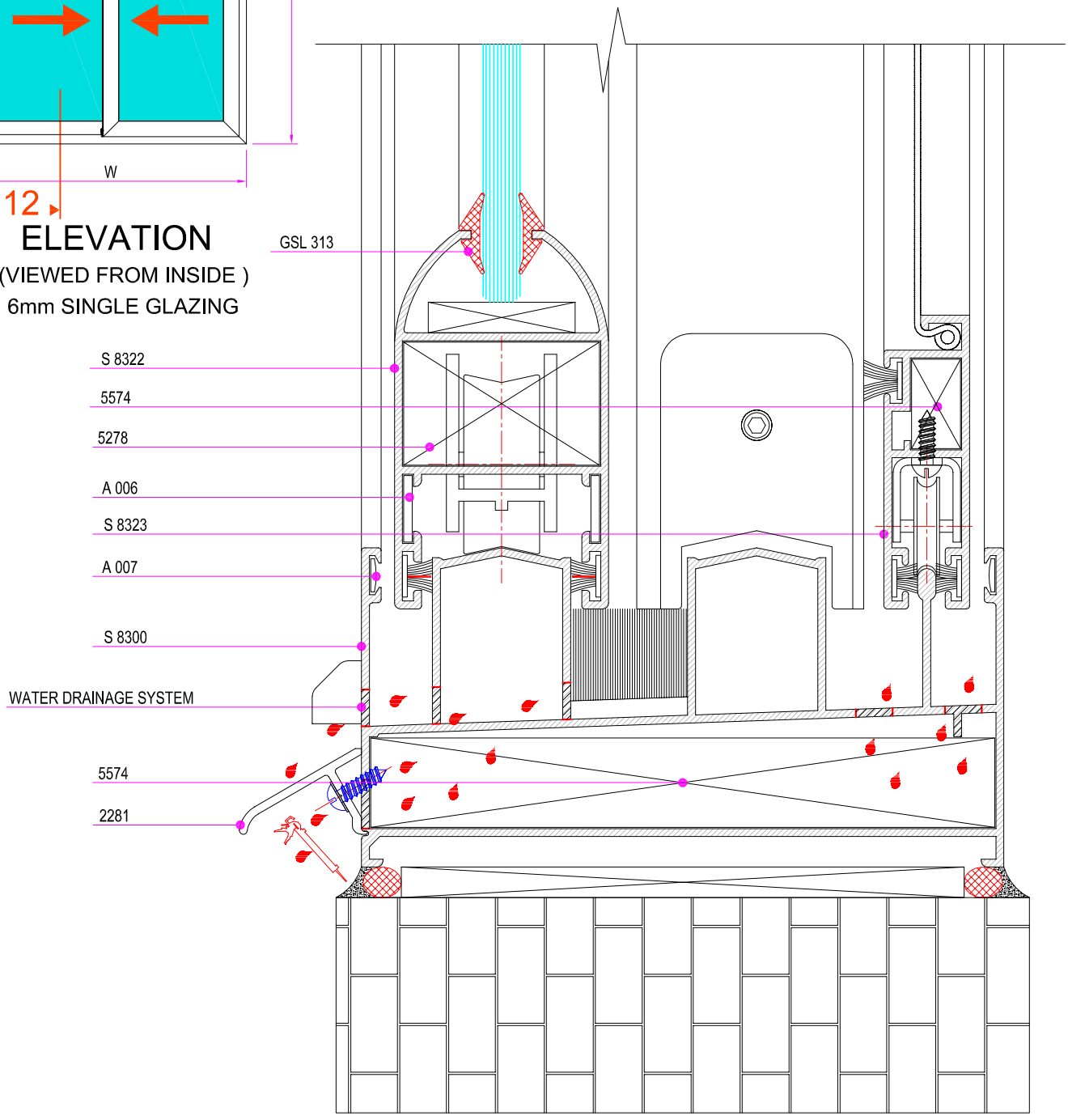
DOUBLE TRACK SLIDING WINDOW



ELEVATION

(VIEWED FROM INSIDE)

6mm SINGLE GLAZING



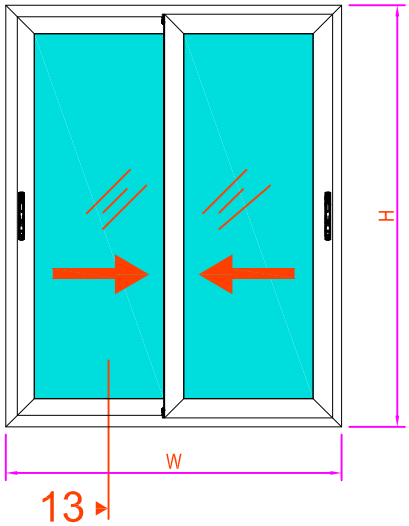
OUTSIDE

INSIDE

SECTION AT – 12

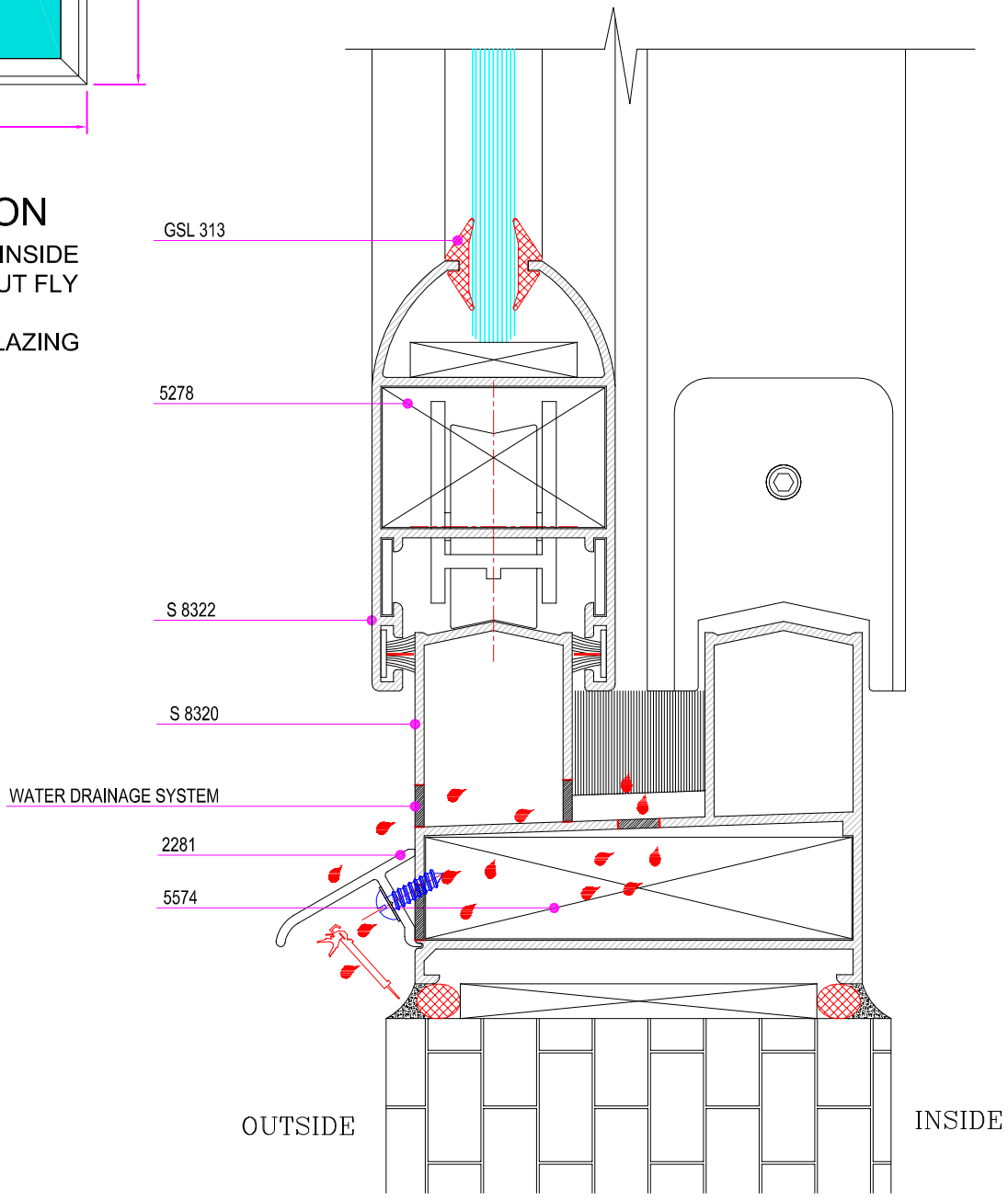
AL - WIN 105® SLIDING SERIES

DOUBLE TRACK SLIDING WINDOW



ELEVATION

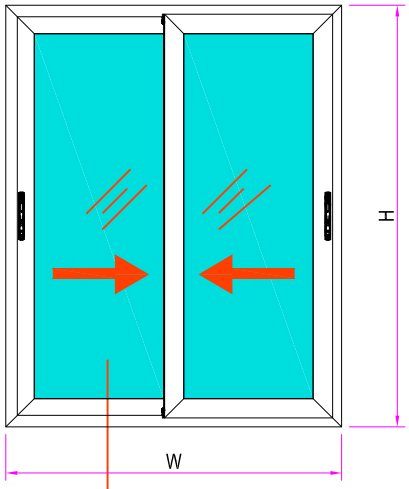
VIEWED FROM INSIDE
FRAME WITH OUT FLY SCREEN
6mm SINGLE GLAZING



SECTION AT – 13

AL - WIN 105® SLIDING SERIES

DOUBLE TRACK SLIDING WINDOW

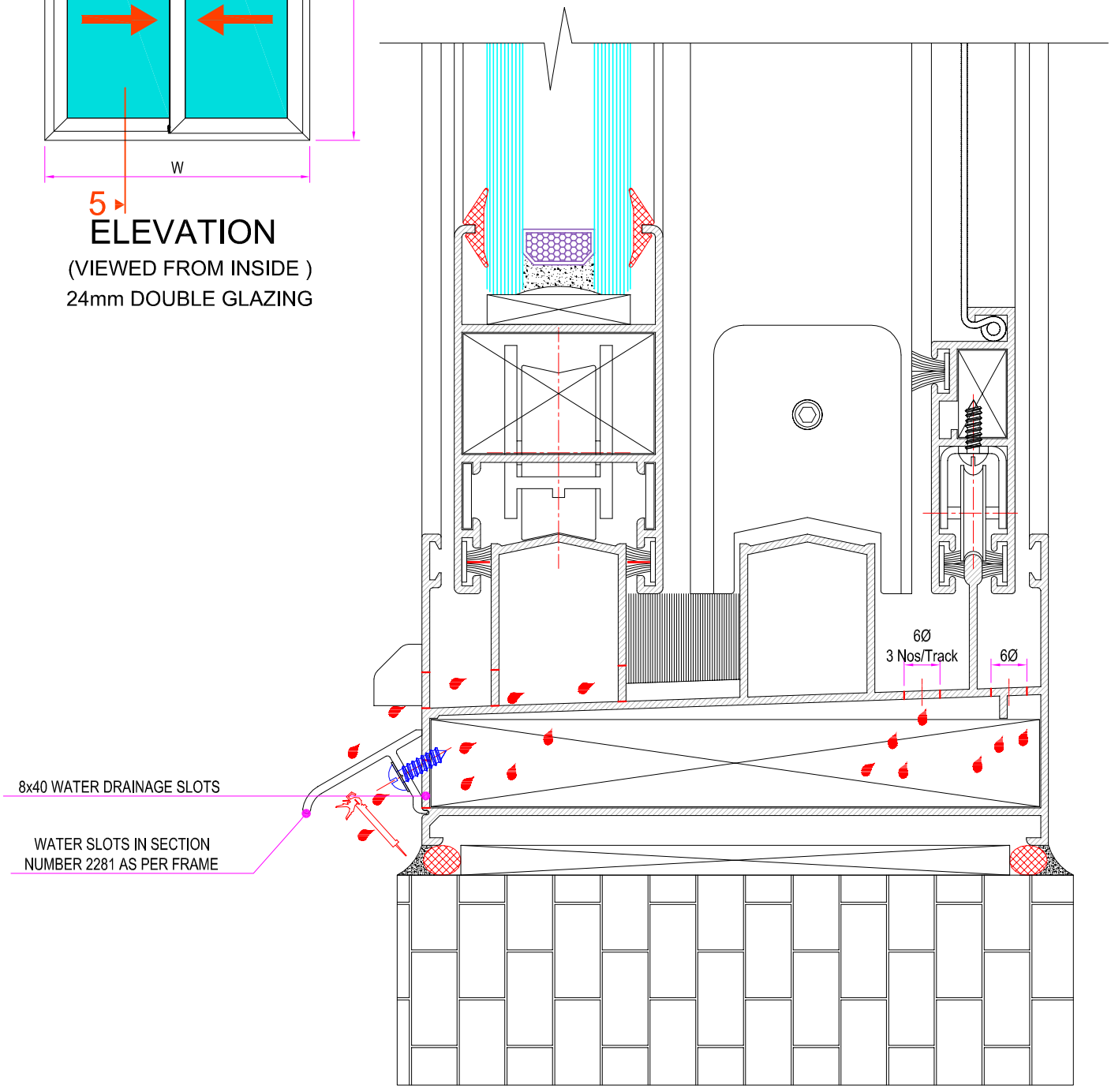


ELEVATION

(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING

WATER DRAINAGE SLOTS DETAIL



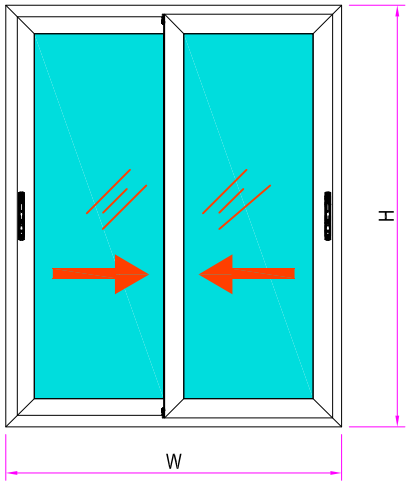
OUTSIDE

INSIDE

SECTION AT – 05

AL - WIN 105® SLIDING SERIES

DOUBLE TRACK SLIDING WINDOW

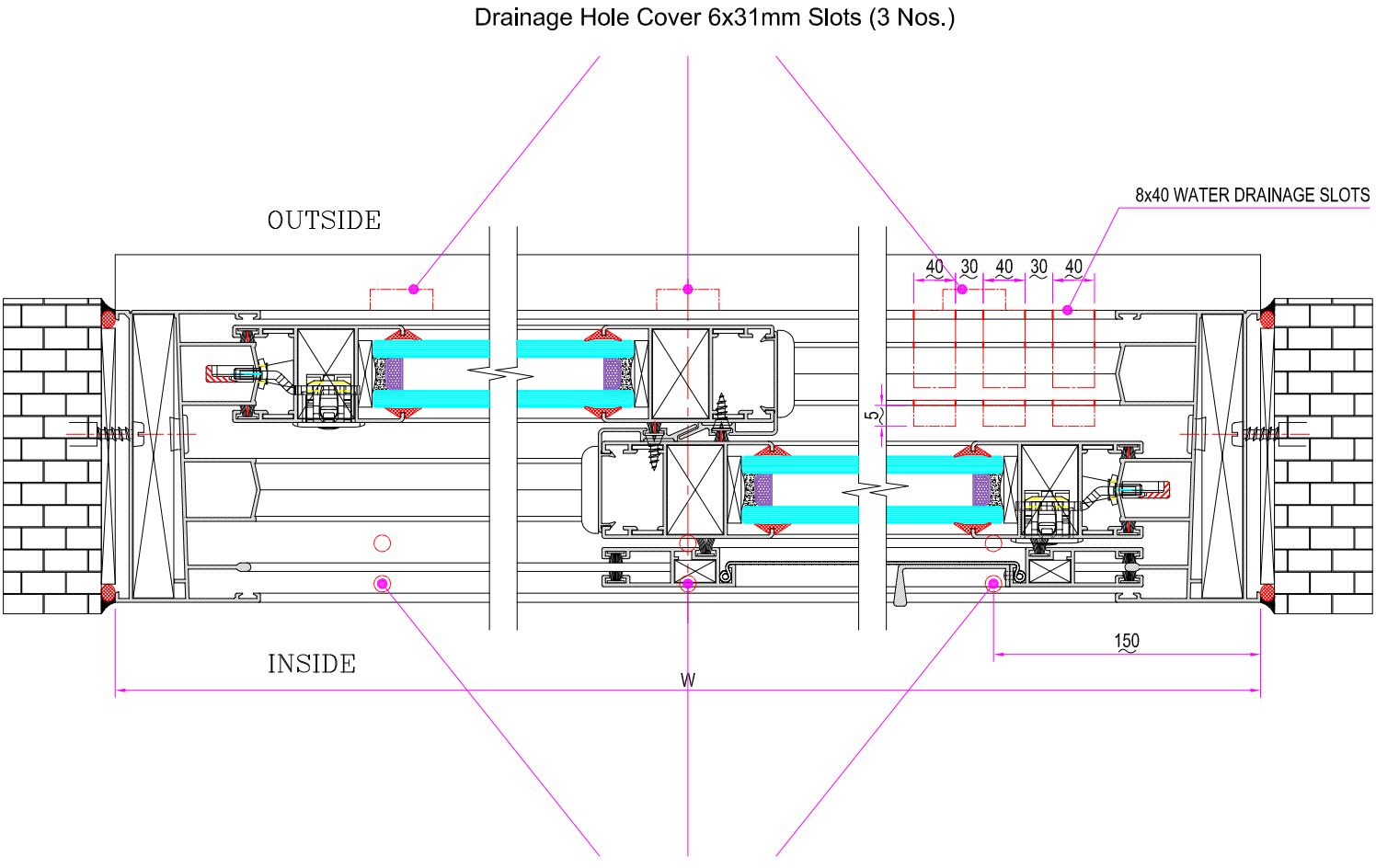


ELEVATION

(VIEWED FROM INSIDE)

24mm DOUBLE GLAZING

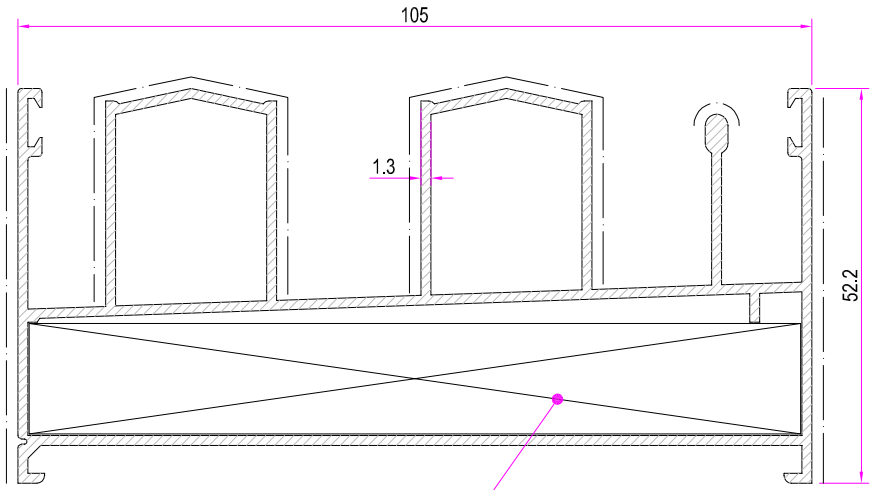
WATER DRAINAGE SLOTS DETAIL



6Ø Hole 3 Nos. in Each Track

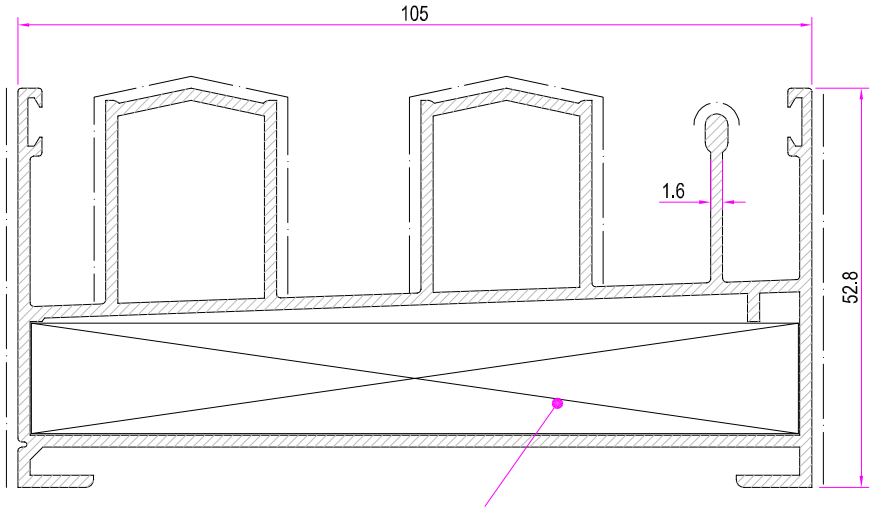
AL - WIN 105® SLIDING SERIES

WINDOWS AND DOORS PROFILES



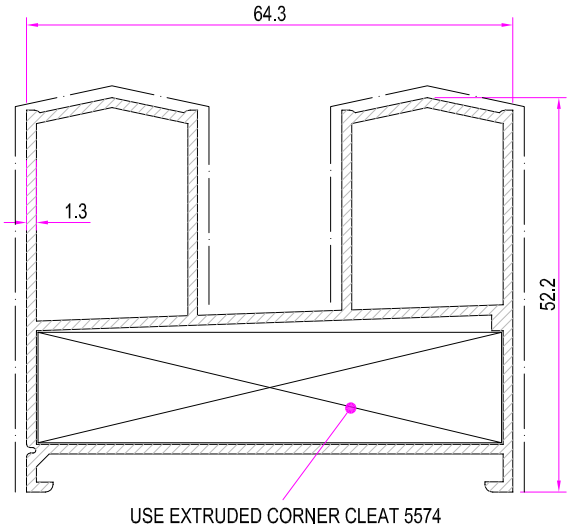
USE EXTRUDED CORNER CLEAT 5574

S 8300
(1.762 Kg / m)
Ixx: 83.04 cm4
Iyy: 16.20 cm4



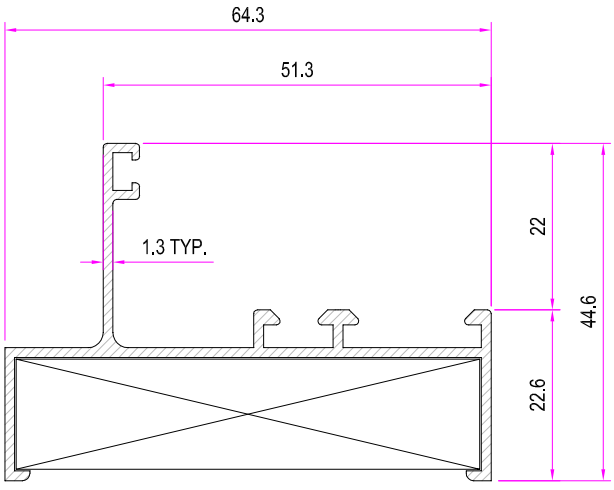
USE EXTRUDED CORNER CLEAT 5574

S 8302
(2.177 Kg / m)
Ixx: 102.98 cm4
Iyy: 20.77 cm4



USE EXTRUDED CORNER CLEAT 5574

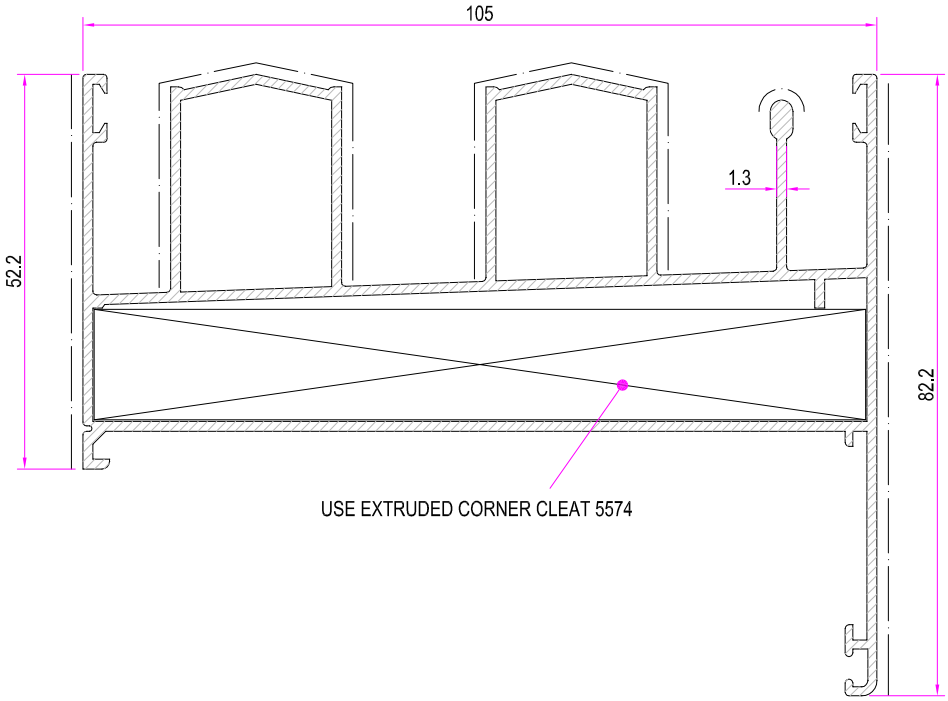
S 8320
(1.146 Kg / m)
Ixx: 22.19 cm4
Iyy: 11.07 cm4



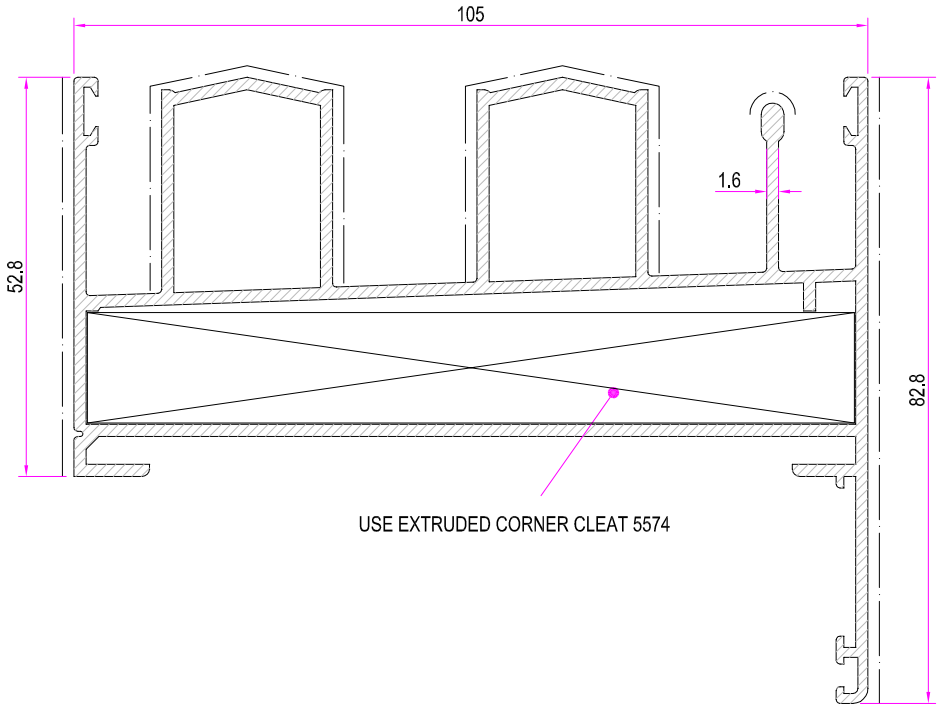
S 8326
(0.569 Kg / m)

AL - WIN 105® SLIDING SERIES

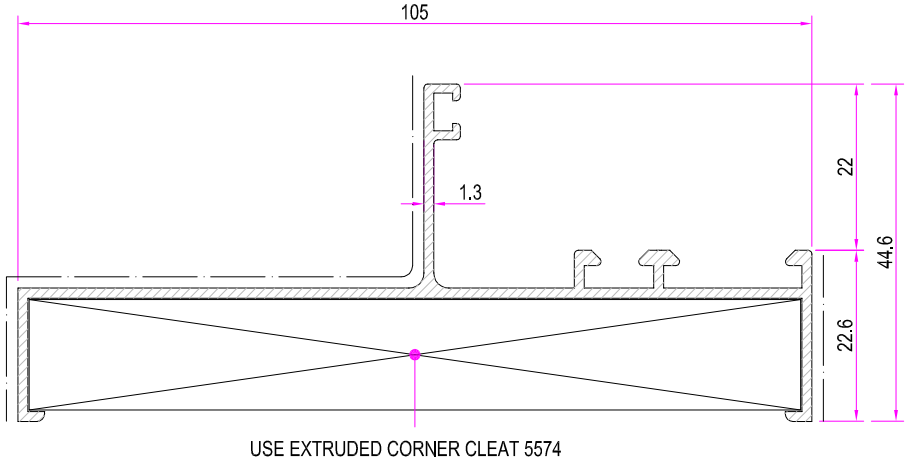
WINDOWS AND DOORS PROFILES



S 8301
(1.890 Kg / m)
Ixx: 96.28 cm4
Iyy: 23.68 cm4



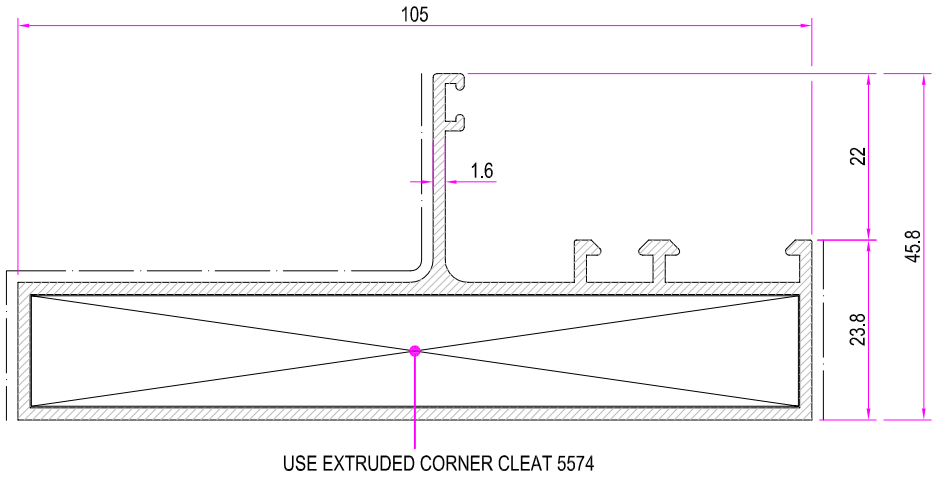
S 8303
(2.331 Kg / m)
Ixx: 118.81 cm4
Iyy: 29.14 cm4



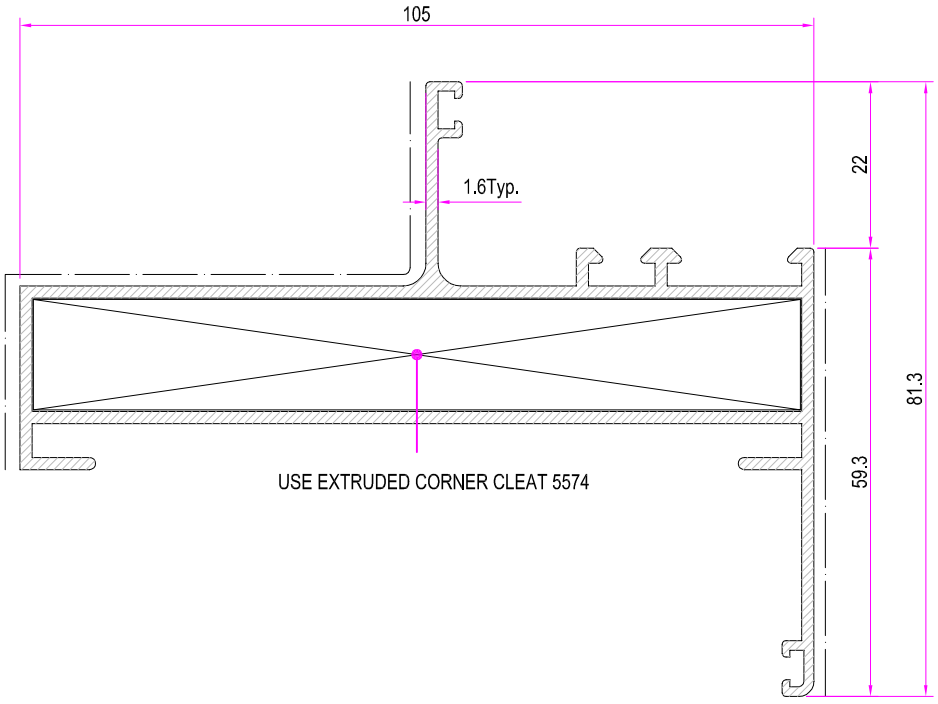
S 8325
(0.724 Kg / m)
Ixx: 29.56 cm4
Iyy: 02.06 cm4

AL - WIN 105® SLIDING SERIES

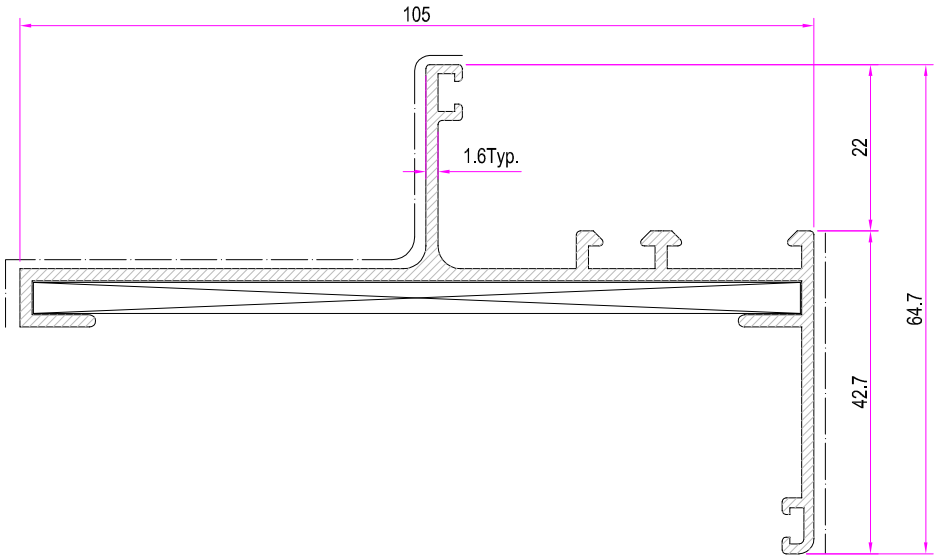
WINDOWS AND DOORS PROFILES



S 8305
(1.292 Kg / m)
Ixx: 48.58 cm4
Iyy: 05.79 cm4



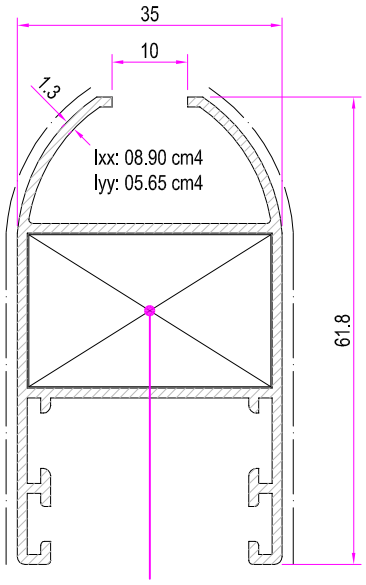
S 8306
(1.555 Kg / m)
Ixx: 71.57 cm4
Iyy: 12.29 cm4



S 8307
(0.972 Kg / m)
Ixx: 41.51 cm4
Iyy: 04.43 cm4

AL - WIN 105® SLIDING SERIES

WINDOWS AND DOORS PROFILES

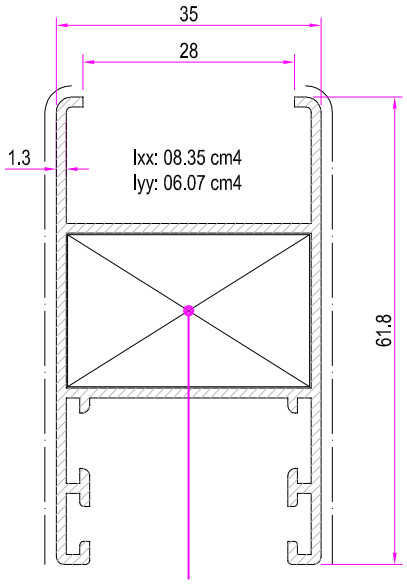


USE EXTRUDED CORNER CLEAT 5278

S 8322

(0.785 Kg / m)

SASH FOR 6mm GLAZING

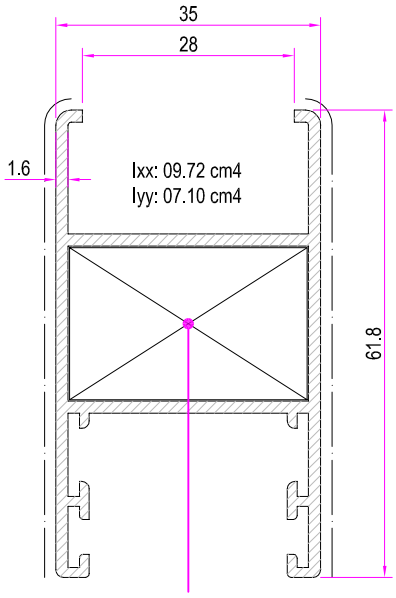


USE EXTRUDED CORNER CLEAT 5278

S 8321

(0.764 Kg / m)

SASH FOR 24mm GLAZING

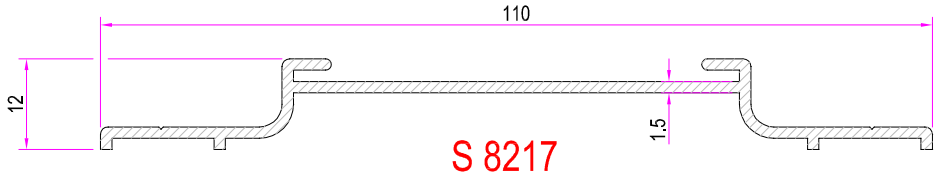


USE EXTRUDED CORNER CLEAT 5278

S 8304

(0.908 Kg / m)

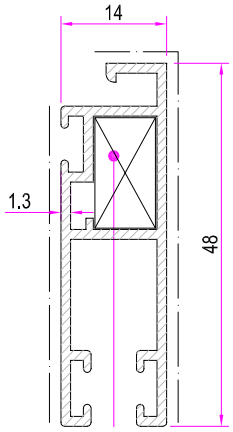
SASH FOR 24mm GLAZING



S 8217

(0.566 Kg / m)

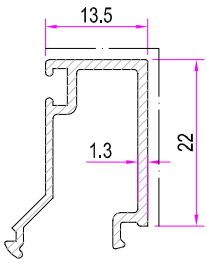
DUST PLUG A035 TO BE USED WITH



USE EXTRUDED CORNER CLEAT 5574

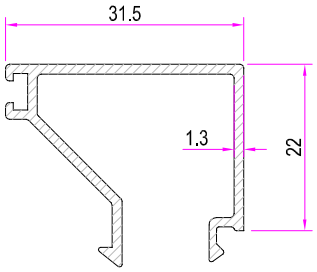
S 8323

(0.500 Kg / m)



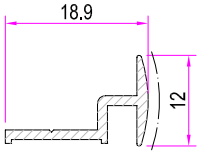
2283

(0.235 Kg / m)



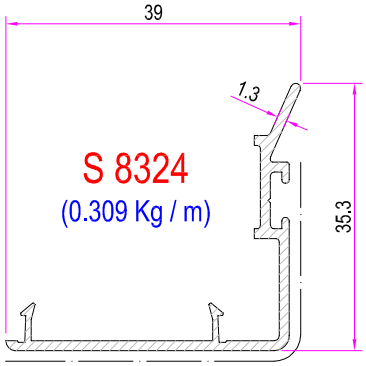
S 8372

(0.333 Kg / m)



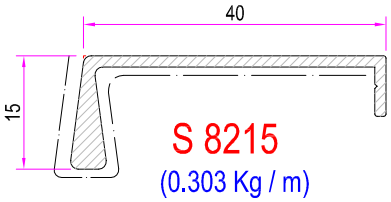
2253

(0.116 Kg / m)



S 8324

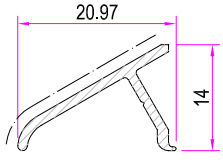
(0.309 Kg / m)



S 8215

(0.303 Kg / m)

FLY SCREEN HANDLE

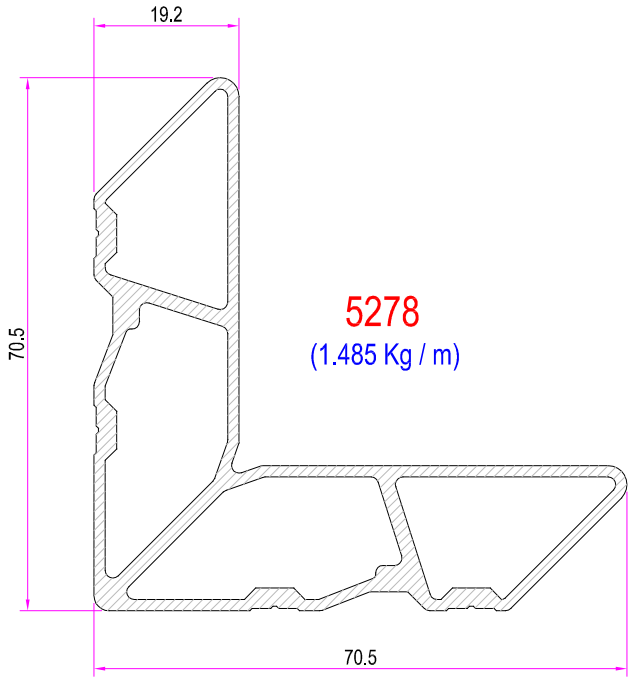


2281

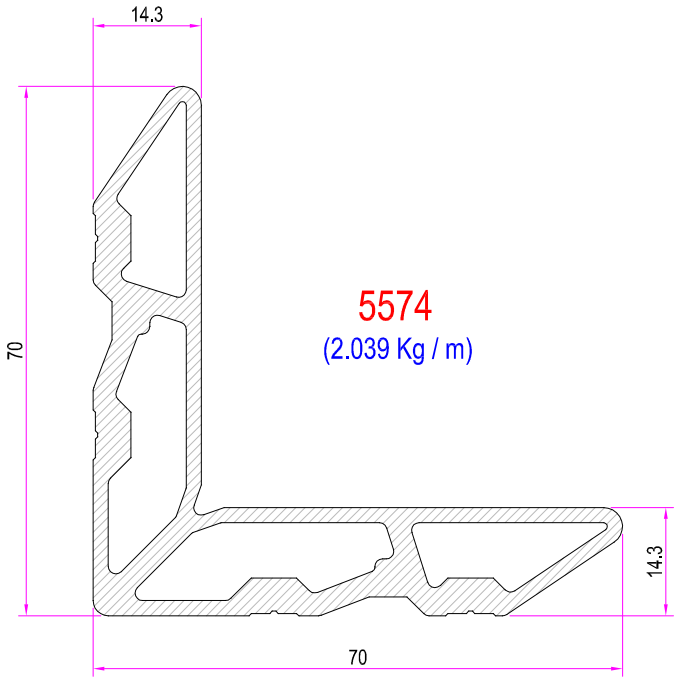
(0.127 Kg / m)

AL - WIN 105® SLIDING SERIES

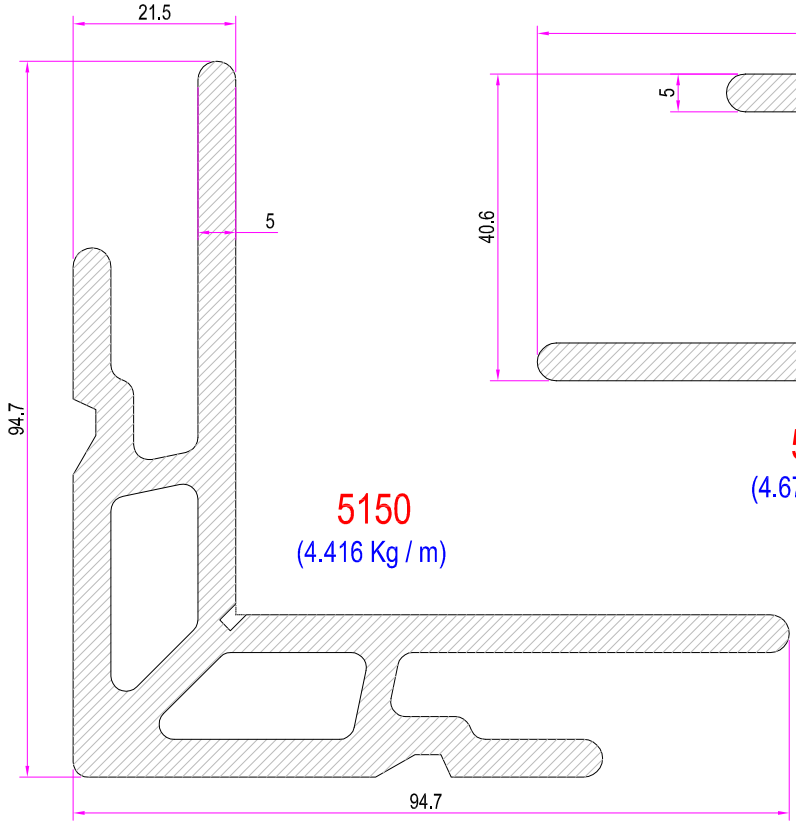
WINDOWS AND DOORS PROFILES



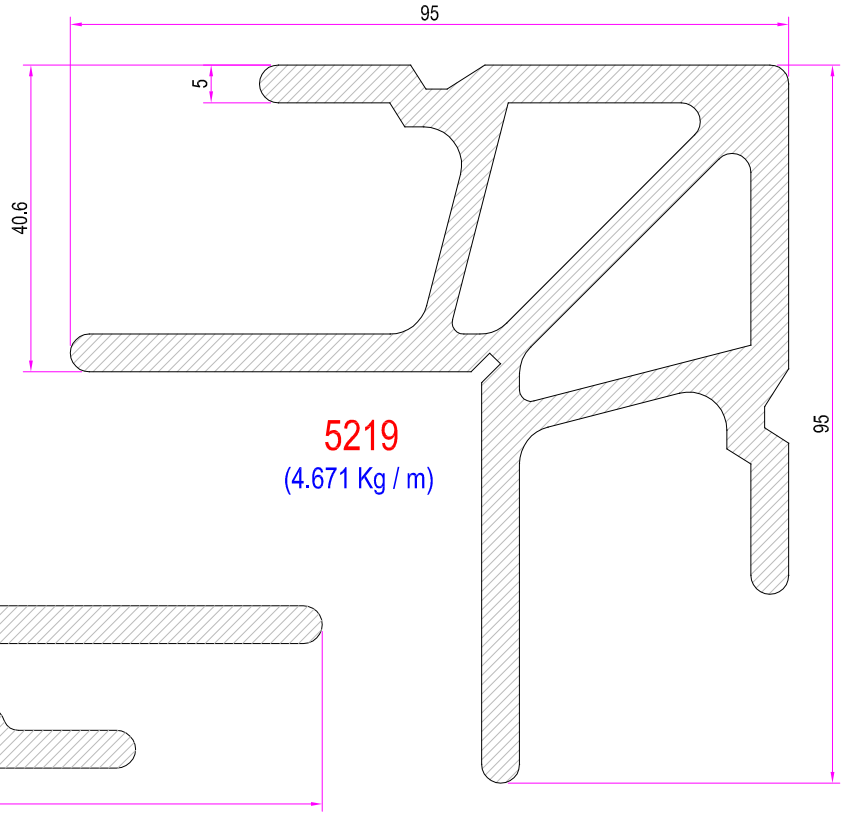
5278
(1.485 Kg / m)



5574
(2.039 Kg / m)



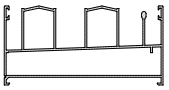
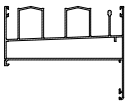
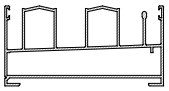
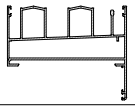
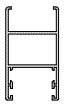
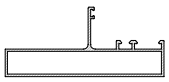
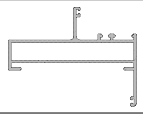
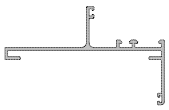
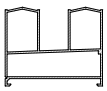
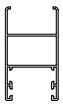
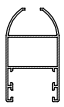
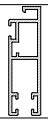
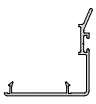
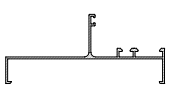
5150
(4.416 Kg / m)



5219
(4.671 Kg / m)

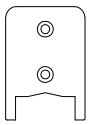
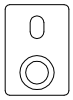
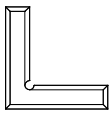
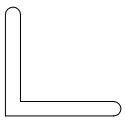
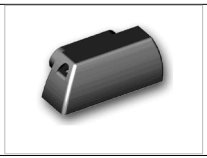
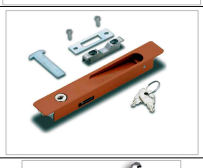
AL - WIN 105® SLIDING SERIES

MOMENT OF INERTIA

Y X X' Y'	Sec. No.	Ixx' (CM⁴)	Iyy' (CM⁴)	Ixx'/V (CM³)	Iyy'/V (CM³)	Y X X' Y'	Sec. No.	Ixx' (CM)⁴	Iyy' (CM)⁴	Ixx'/V (CM³)	Iyy'/V (CM³)
	S 8300	83.04	16.20				2283	00.61	00.29		
	S 8301	96.28	23.68				S 8321 S 8324 S 8321	45.98	26.39		
	S 8302	102.99	20.77				S 8322 S 8324 S 8322	45.39	27.81		
	S 8303	118.82	29.15								
	S 8304	09.72	07.11								
	S 8305	48.59	05.80								
	S 8306	71.57	12.29								
	S 8307	41.51	04.43								
	S 8320	22.19	11.07								
	S 8321	08.19	06.06								
	S 8322	08.75	05.65								
	S 8323	03.89	00.53								
	S 8324	02.38	00.59								
	S 8325	29.41	02.13								

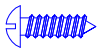
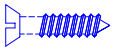
AL - WIN 105® SLIDING SERIES

ACCESSORIES

SL. No.	ACCESSORIES CODE No.	SHAPE	DESCRIPTION	REMARKS
1.	A O30		BUMP RUBBER GUIDE	
2.	A O31		ANTI THEFT COVER	
3.	A O32		ROLLER FOR SASH (FOR WINDOWS)	
4.	A O33		ROLLER FOR FLY SCREEN	
5.	A O34		ROLLER FOR SASH (FOR DOORS)	
6.	A O35		DUST PLUG 19mm	TO BE USED WITH S 8217
7.	A OO6		SASH ALIGNMENT CORNER	
8.	A OO7		FRAME ALIGNMENT CORNER	GIESSE 00365
9.	A OO8		WATER SLOTS COVER	GIESSE 02314
10.	A OO9		SLIDING HANDLE (FOR WINDOW)	GIESSE 02983
11.	A O10		KEEPER & C.PLATE NIBS (KIT)	GIESSE E213 & 04897

AL - WIN 105® SLIDING SERIES

ACCESSORIES

SL. No.	ACCESSORIES CODE No.	SHAPE	DESCRIPTION	REMARKS
12.	A O11		COVER CAP 11.5mm ø	LOCALLY AVAILABLE
13.	A O13		4.2X16 PAN HEAD SELFTAPPING ST. SCREWS	LOCALLY AVAILABLE
14.	A O14		3.9X13 C'SUNK HEAD SELFTAPPING ST.SCREWS	LOCALLY AVAILABLE
15.	A O16		SLIDING HANDLE (FOR DOORS)	GIESSE 03353
16.	A O17		PULLING HANDLE (FOR DOORS)	GIESSE 03055

AL - WIN 105® SLIDING SERIES

EPDM GASKET

SL. No.	GASKET CODE No.	GASKET SHAPE	DESCRIPTION	REMARKS
1.	GSL 313		INTERNAL GASKET FOR SLIDING SASH	
2.	GSL 304		EXTERNAL GASKET FOR CASEMENT	
3.	RUB 065		INTERNAL GASKET FOR CASEMENT	
4.	GSL 305		FLY SCREEN GASKET	LOCALLY AVAILABLE
5.	PB 307		FIN SEAL BRUSH FOR SASH PB69.600 FP FOR SASH	LOCALLY AVAILABLE
6.	PB 308		POLY BOND PB 4.8.550 3P FOR FLY SCREEN	LOCALLY AVAILABLE